Access DB# 191644

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: John Chu Examiner #: 6834 Date: 6-2-06
Art Unit: 1752 Phone Number 3[illegible] 2-1329 Serial Number: 08/726,613
Mail Box and Bldg/Room Location: 9051 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

_____

Earliest Priority Filing Date: _____

For Sequence Searches Only *Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Please see attached.

#294

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STAFF USE ONLY	Type of Search		Vendors and cost where applicable	
Searcher: EL	NA Sequence (#)		STN	$ 301.62
Searcher Phone #:	AA Sequence (#)		Dialog	
Searcher Location:	Structure (#)	✓ (4)	Questel/Orbit	
Date Searcher Picked Up:	Bibliographic	✓ (and 5)	Dr.Link	
Date Completed: 6-2-06	Litigation		Lexis/Nexis	
Searcher Prep & Review Time: 5	Fulltext		Sequence Systems	
Clerical Prep Time:	Patent Family		WWW/Internet	
Online Time: 75	Other		Other (specify)	

PTO-1590 (8-01)

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=> file reg
FILE 'REGISTRY' ENTERED AT 13:44:05 ON 02 JUN 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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=> d his

     FILE 'LREGISTRY' ENTERED AT 12:01:51 ON 02 JUN 2006
L1              STR
L2              STR
L3              STR
L4              STR
L5              STR L2
L6           41 S L1
L7          795 S 591.79.52/RID
L8            2 S L3
L9           50 S 591.397/RID
L10           2 S L4
L11          33 S 591.429/RID
L12           3 S L5
L13          89 S 591.359.15/RID
L14           7 S (L7 OR L9 OR L11 OR L13) AND PMS/CI
                E POLYACRYLIC/PCT
L15        1333 S E3
L16           0 S (L7 OR L9 OR L11 OR L13) AND L15

     FILE 'REGISTRY' ENTERED AT 13:30:17 ON 02 JUN 2006
L17      387583 S L7
L18       33057 S L9
L19       13593 S L11
L20       46423 S L13
                E POLYACRYLIC/PCT
L21      323318 S E3
L22         326 S L21 AND L17
L23           2 S L21 AND L18
L24           0 S L21 AND L19
L25           9 S L21 AND L20

     FILE 'ZCA' ENTERED AT 13:32:23 ON 02 JUN 2006
L26         191 S L22
L27           1 S L23
L28           5 S L25
L29           4 S (L27 OR L28) AND 1840-1996/PRY,PY
L30         118 S L26 AND 1840-1996/PRY,PY
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     FILE 'REGISTRY' ENTERED AT 13:34:46 ON 02 JUN 2006
L31        2802 S (L17 OR L18 OR L19 OR L20) AND PMS/CI

     FILE 'ZCA' ENTERED AT 13:35:20 ON 02 JUN 2006
L32        1004 S L31 AND 1840-1996/PRY,PY
L33      176042 S RESIST OR RESISTS OR PHOTORESIST? OR MASK? OR PHOTOMASK
L34       15532 S PAG OR PAGS OR P(W)A(W)G OR PHOTOACID? OR PHOTOGENERAT?
L35           0 S L29 AND (L33 OR L34)
L36           7 S L30 AND (L33 OR L34)
L37          25 S L32 AND (L33 OR L34)
L38           2 S L32 AND L33 AND L34
L39          20 S L32 AND L33
L40           7 S L32 AND L34
L41           4 S L29 NOT L36
L42         110 S L30 NOT (L36 OR L41)
L43           2 S L38 NOT (L36 OR L41 OR L42)
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=> file zca
FILE 'ZCA' ENTERED AT 13:45:02 ON 02 JUN 2006
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ARC compositions

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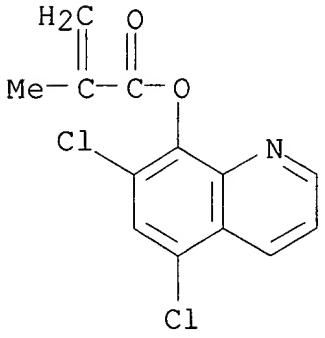
=> d l36 1-7 cbib abs hitstr hitind

L36  ANSWER 1 OF 7  ZCA  COPYRIGHT 2006 ACS on STN
128:95349  Antireflective coating for photoresist.  Sinta,
     Roger F.; Adams, Timothy G.; Mori, James Michael (Shipley Company,
     L.L.C., USA).  Eur. Pat. Appl. EP 813114 A2 19971217, 16 pp.
     DESIGNATED STATES: R:  DE, FR, GB, IT.  (English).  CODEN: EPXXDW.
     APPLICATION: EP 1997-108605 19970528.  PRIORITY: US 1996-665019
     19960611.
AB   The invention provides a new light-absorbing crosslinking compn.
     suitable for forming an antireflective coating (ARC), particularly
     for a deep-UV photoresist.  The ARC comprises a
     crosslinker and novel resin binders that effectively absorb
     reflected deep-UV exposure radiation.
IT   201030-65-1P
        (prepn. and use in forming antireflective coatings for deep-UV
        photoresists)
RN   201030-65-1  ZCA
CN   2-Propenoic acid, 2-methyl-, 5,7-dichloro-8-quinolinyl ester,
     polymer with 2-hydroxyethyl 2-methyl-2-propenoate (9CI)  (CA INDEX
```

NAME)

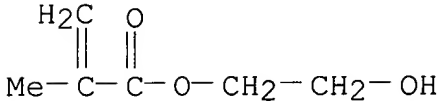
CM 1

CRN 18630-67-6
CMF C13 H9 Cl2 N O2



CM 2

CRN 868-77-9
CMF C6 H10 O3



IC ICM G03F007-09
CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 73
ST UV **photoresist** antireflective coating crosslinking
IT **Photoresists**
(deep-UV; antireflective coatings for)
IT Antireflective films
(for deep-UV **photoresists**)
IT Phenolic resins, uses
(novolak; contg. glycidyl and anthryl groups for antireflective coatings for deep-UV **photoresists**)
IT 18630-67-6P, Chloroxine methacrylate
(chloroxine methacrylate; prepn. and reaction in prepg. antireflective coatings for deep-UV **photoresists**)
IT 104-15-4, uses 1678-43-9, Benzoin tosylate 17464-88-9, Powderlink 1174 20444-09-1, 2-Nitrobenzyl tosylate 161065-83-4, 9-Anthrylmethyl methacrylate-2-hydroxyethyl methacrylate copolymer

(deep-UV **photoresists** with antireflective coatings contg.)

IT **201030-65-1P**
(prepn. and use in forming antireflective coatings for deep-UV **photoresists**)

IT 79-41-4, reactions 773-76-2, Chloroxine
(reaction in prepg. antireflective coatings for deep-UV **photoresists**)

L36 ANSWER 2 OF 7 ZCA COPYRIGHT 2006 ACS on STN
117:101192 A highly photosensitive imaging element based on a photosensitive resin. Delzenne, Gerard Albert; De Schrijver, Frans Carl; Van den Broeck, Hilde; Voortmans, Gilbert Johannes; Jackers, Carina Maria; Vangilbergen, An Cordula (Agfa-Gevaert N. V., Belg.). Eur. Pat. Appl. EP 476187 A1 **19920325**, 15 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1990-202490 19900920.

AB Highly sensitive photoimaging coating contains a homopolymer or a polymer including quaternized (0-100%) monomer units having styryl-type N-contg. heterocyclic ring. The imaging includes flood exposure of the supported coating with energy dose smaller than that required to induce gelation, and/or thermal treatment, imagewise exposure, and development with an org. solvent to remove insufficiently crosslinked nonimage areas. The compn. can be used as lithog. **photoresist**, or for fabrication of lithog. or planog. printing plates.

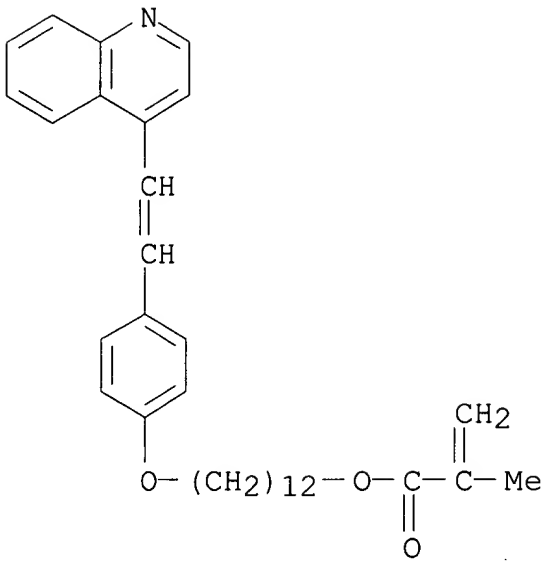
IT **142769-87-7P 142769-88-8P 142769-90-2P**
142769-91-3P 142769-92-4P 143073-56-7P
(prepn. and photoimaging with)

RN 142769-87-7 ZCA

CN 2-Propenoic acid, 2-methyl-, 6-bromohexyl ester, polymer with butyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and 12-[4-[2-(4-quinolinyl)ethenyl]phenoxy]dodecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

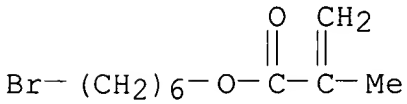
CM 1

CRN 142769-86-6
CMF C33 H41 N O3



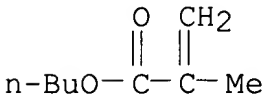
CM 2

CRN 128055-28-7
CMF C10 H17 Br O2



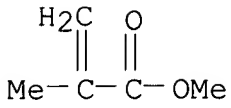
CM 3

CRN 97-88-1
CMF C8 H14 O2



CM 4

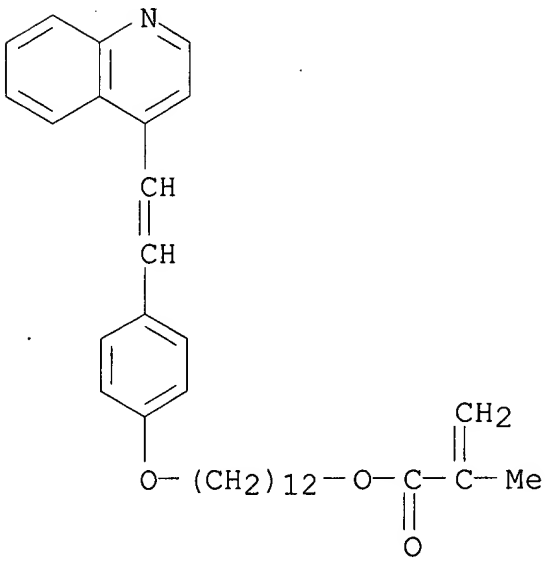
CRN 80-62-6
CMF C5 H8 O2



RN 142769-88-8 ZCA
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 1-bromohexane, methyl 2-methyl-2-propenoate and 12-[4-[2-(4-quinolinyl)ethenyl]phenoxy]dodecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

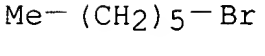
CM 1

CRN 142769-86-6
CMF C33 H41 N O3



CM 2

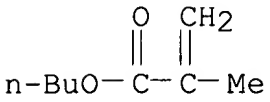
CRN 111-25-1
CMF C6 H13 Br



CM 3

CRN 97-88-1

CMF C8 H14 O2



CM 4

CRN 80-62-6
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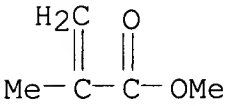

RN 142769-90-2 ZCA
CN 2-Propenoic acid, 2-methyl-, 6-bromohexyl ester, polymer with butyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and 6-[4-[2-(2-quinolinyl)ethenyl]phenoxy]hexyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 142769-89-9
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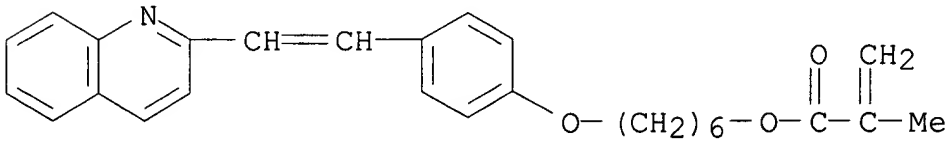
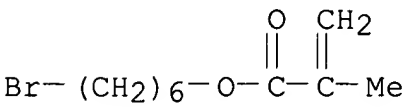


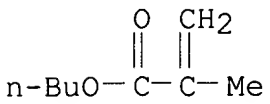
CM 2

CRN 128055-28-7
CMF C10 H17 Br O2



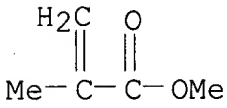
CM 3

CRN 97-88-1
CMF C8 H14 O2



CM 4

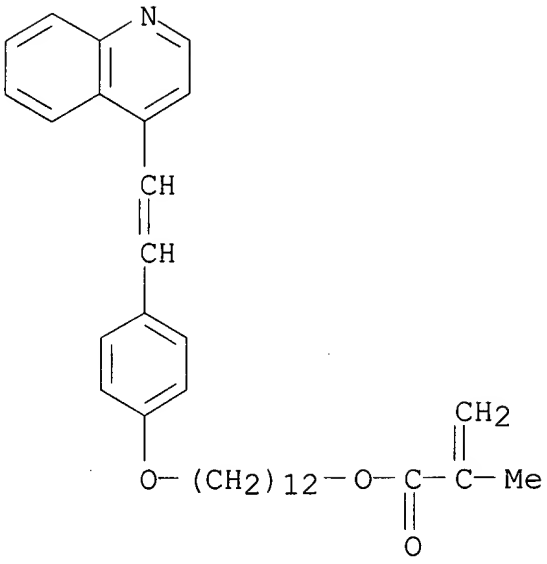
CRN 80-62-6
CMF C5 H8 O2



RN 142769-91-3 ZCA
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with methyl hydrogen sulfate, methyl 2-methyl-2-propenoate and 12-[4-[2-(4-quinolinyl)ethenyl]phenoxy]dodecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

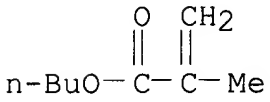
CM 1

CRN 142769-86-6
CMF C33 H41 N O3



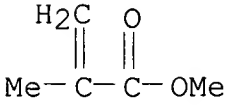
CM 2

CRN 97-88-1
CMF C8 H14 O2



CM 3

CRN 80-62-6
CMF C5 H8 O2



CM 4

CRN 75-93-4
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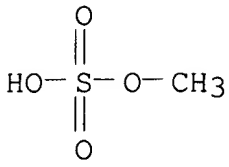
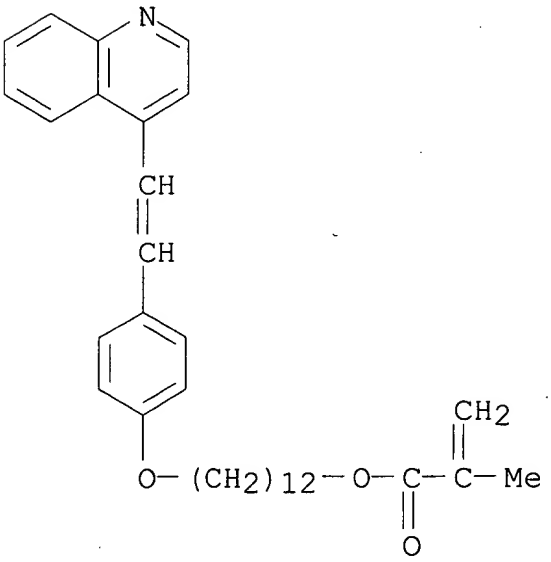


RN 142769-92-4 ZCA
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 6-bromo-1-hexanol and 12-[4-[2-(4-quinolinyl)ethenyl]phenoxy]dodecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

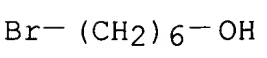
CM 1

CRN 142769-86-6
CMF C33 H41 N O3



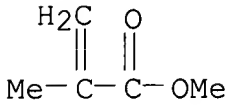
CM 2

CRN 4286-55-9
CMF C6 H13 Br O



CM 3

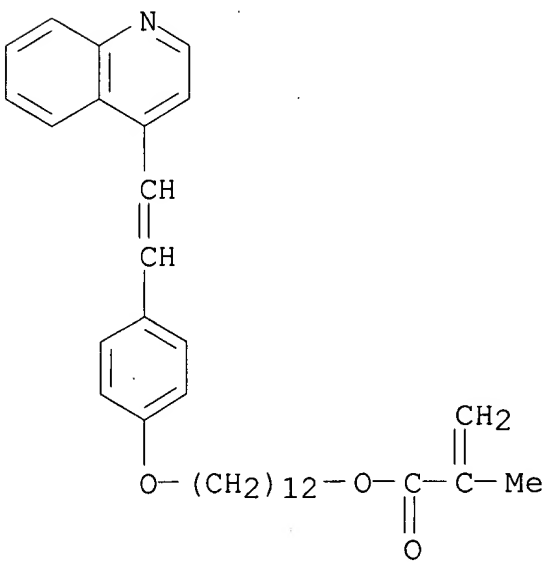
CRN 80-62-6
CMF C5 H8 O2



RN 143073-56-7 ZCA
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 6-bromo-1-hexanol, methyl 2-methyl-2-propenoate and 12-[4-[2-(4-quinolinyl)ethenyl]phenoxy]dodecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

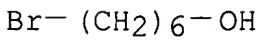
CM 1

CRN 142769-86-6
CMF C33 H41 N O3



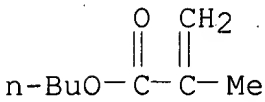
CM 2

CRN 4286-55-9
CMF C6 H13 Br O



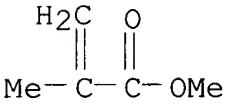
CM 3

CRN 97-88-1
CMF C8 H14 O2



CM 4

CRN 80-62-6
CMF C5 H8 O2



IC ICM G03F007-038
ICS G03F007-20; C08F020-34; C08F020-36
CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST photosensitive polymer printing plate **photoresist**; photoimaging polymer quaternized methacryloyloxyquinoline deriv monomer
IT **Resists**
(photo-, photosensitive polymer contg. quaternized monomer with styryl-type nitrogen-contg. heterocyclic ring as)
IT **142769-87-7P 142769-88-8P 142769-90-2P**
142769-91-3P 142769-92-4P 143073-56-7P
(prepn. and photoimaging with)

L36 ANSWER 3 OF 7 ZCA COPYRIGHT 2006 ACS on STN
99:222419 Photosensitive polymer composition. (Agency of Industrial Sciences and Technology, Japan). Jpn. Kokai Tokkyo Koho JP 58025302 A2 **19830215** Showa, 9 pp. (Japanese). CODEN: JKXXAF.
APPLICATION: JP 1981-123232 19810806.
GI For diagram(s), see printed CA Issue.
AB A photosensitive polymer I (R = H, alkoxy; R1 = alkyl, aralkyl; Z1 = the necessary atoms to form a heterocyclic ring; Z2 = divalent org. moiety; X- = strong acid anion; n = 0, 1) has a quaternary N-contg. heterocyclic moiety in the side chain conjugated to a double bond and is obtained by condensing a formylphenyl group-contg. polymer II (Z3 = divalent org. moiety; R2 = H, alkoxy; n = 0, 1) with a Me group-contg. quaternary N heterocycle III (Z4 = the necessary atoms

to form a heterocycle; R3 = alkyl, aralkyl; X- = anion of strong acid). The polymer is esp. useful as a **photoresist** and as a photosensitive vehicle for paints and printing inks.

IT **87227-94-9 87227-98-3 87227-99-4**
(for **photoresists** and photocurable paints and inks)

RN 87227-94-9 ZCA

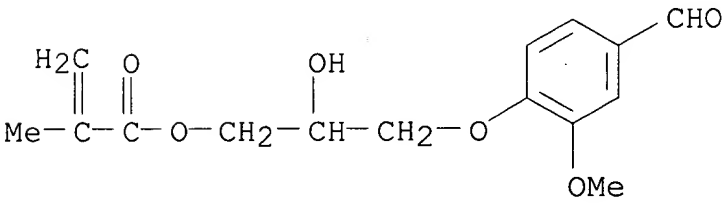
CN Quinolinium, 1,4-dimethyl-, methyl sulfate, compd. with 3-(4-formyl-2-methoxyphenoxy)-2-hydroxypropyl 2-methyl-2-propenoate polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 87227-91-6
CMF (C15 H18 O6 . C5 H8 O2)x
CCI PMS

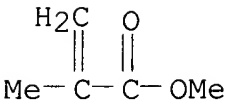
CM 2

CRN 87227-90-5
CMF C15 H18 O6



CM 3

CRN 80-62-6
CMF C5 H8 O2

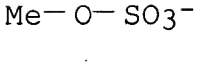


CM 4

CRN 54654-70-5
CMF C11 H12 N . C H3 O4 S

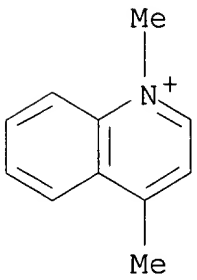
CM 5

CRN 21228-90-0
CMF C H3 O4 S



CM 6

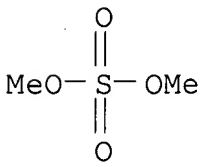
CRN 18241-37-7
CMF C11 H12 N



RN 87227-98-3 ZCA
CN 2-Propenoic acid, 2-methyl-, 2-hydroxy-3-[2-methoxy-4-[2-(2-quinolinyl)ethenyl]phenoxy]propyl ester, polymer with methyl 2-methyl-2-propenoate, compd. with dimethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 77-78-1
CMF C2 H6 O4 S

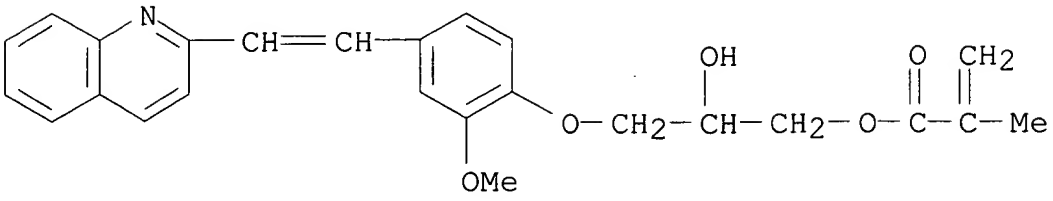


CM 2

CRN 86112-67-6
CMF (C25 H25 N O5 . C5 H8 O2)x
CCI PMS

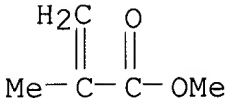
CM 3

CRN 86098-68-2
CMF C25 H25 N O5



CM 4

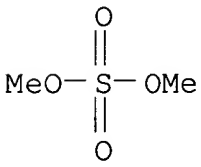
CRN 80-62-6
CMF C5 H8 O2



RN 87227-99-4 ZCA
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-hydroxy-3-[2-methoxy-4-[2-(2-quinolinyl)ethenyl]phenoxy]propyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate, compd. with dimethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 77-78-1
CMF C2 H6 O4 S

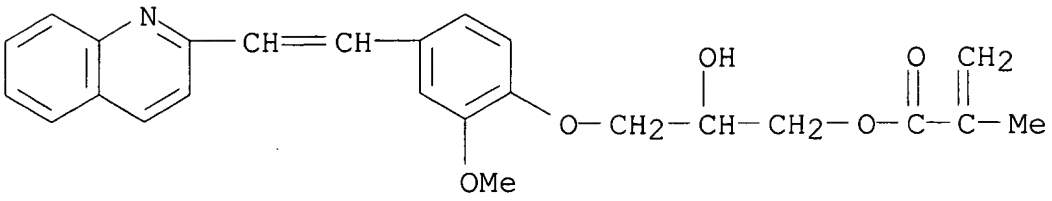


CM 2

CRN 86112-68-7
CMF (C25 H25 N O5 . C8 H14 O2 . C5 H8 O2)x
CCI PMS

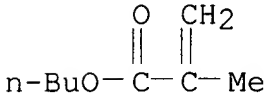
CM 3

CRN 86098-68-2
CMF C25 H25 N O5



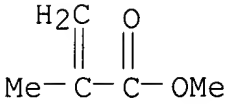
CM 4

CRN 97-88-1
CMF C8 H14 O2



CM 5

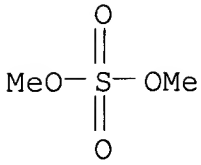
CRN 80-62-6
CMF C5 H8 O2



IT **87227-89-2P**
(prepn. and use of, in **photoresists** and photocurable paints and inks)
RN 87227-89-2 ZCA
CN 2-Propenoic acid, 2-methyl-, 2-hydroxy-3-[2-methoxy-4-[2-(2-quinolinyl)ethenyl]phenoxy]propyl ester, polymer with N,N,2-trimethyl-2-propenamide, compd. with dimethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 77-78-1
CMF C2 H6 O4 S

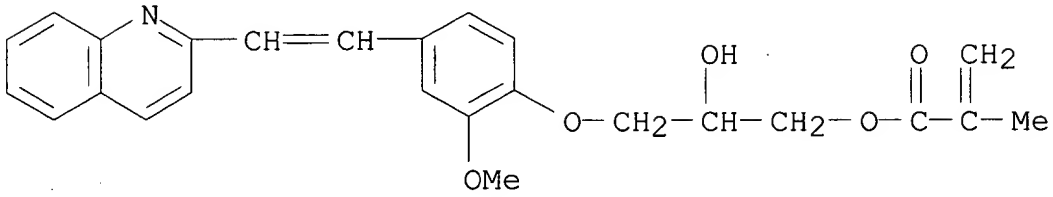


CM 2

CRN 87227-88-1
CMF (C25 H25 N O5 . C6 H11 N O)x
CCI PMS

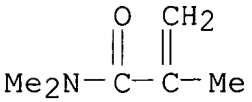
CM 3

CRN 86098-68-2
CMF C25 H25 N O5



CM 4

CRN 6976-91-6
CMF C6 H11 N O



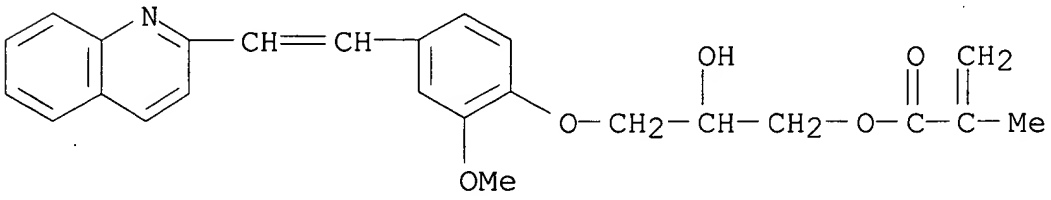
IC C08F008-02; C08F008-30; C08F220-40; G03C001-71; G03F007-08
CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 35
ST photosensitive polymer **resist** paint ink
IT **Resists**
(photo-, photosensitive polymer for)
IT 87227-92-7 87227-93-8 **87227-94-9** 87227-96-1
87227-97-2 **87227-98-3 87227-99-4**

(for **photoresists** and photocurable paints and inks)
IT 86112-66-5P **87227-89-2P** 87250-15-5P
(prepn. and use of, in **photoresists** and photocurable paints and inks)

L36 ANSWER 4 OF 7 ZCA COPYRIGHT 2006 ACS on STN
99:6534 Photo-insolubilizing resin compositions. (Agency of Industrial Sciences and Technology, Japan). Jpn. Kokai Tokkyo Koho JP 58025317 A2 **19830215** Showa, 7 pp. (Japanese). CODEN: JKXXAF.
APPLICATION: JP 1981-123231 19810806.
AB Photocrosslinked polymers were prepd. from styryl derivs. of a pyridine, quinoline, or benzothiazole copolymd. with acrylonitrile or a (meth)acrylate in acid medium. The compns. provided photocrosslinked resins with much higher sensitivity than obtained with conventional photosensitive materials at low contents of the photocrosslinking moiety. Thus, an Al substrate was coated with a layer contg. 4-[2-(4-methacryloyloxy-3-methoxyphenyl)ethenyl]quinoline-Me.methacrylate copolymer [**86112-78-9**] and p-toluenesulfonic acid (I) [104-15-4] (2 mol/mol photocrosslinking moiety); the layer was exposed to a Xe lamp and developed with ClCH2CH2Cl to give an image with sensitivity (relative to a com. available resin, TPR, Tokyo Ohka Co.), of 8.0 vs. 2.0 for a control not contg. I.
IT **86112-67-6P 86112-68-7P 86112-69-8P**
86112-70-1P 86112-71-2P
(prepn. and photocrosslinking of)
RN 86112-67-6 ZCA
CN 2-Propenoic acid, 2-methyl-, 2-hydroxy-3-[2-methoxy-4-[2-(2-quinolinyl)ethenyl]phenoxy]propyl ester, polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

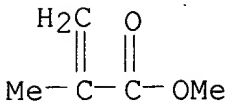
CRN 86098-68-2
CMF C25 H25 N O5



CM 2

CRN 80-62-6

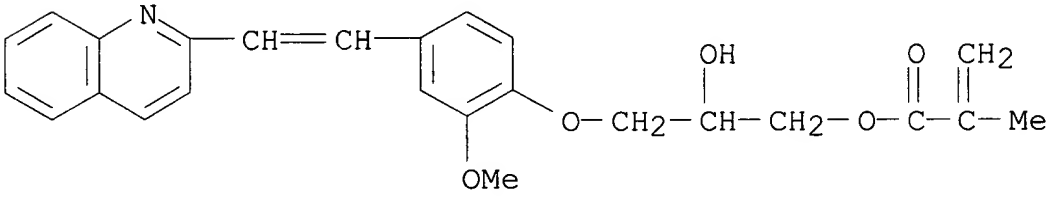
CMF C5 H8 O2



RN 86112-68-7 ZCA
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-hydroxy-3-[2-methoxy-4-[2-(2-quinolinyl)ethenyl]phenoxy]propyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

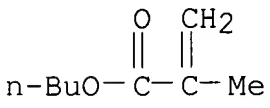
CM 1

CRN 86098-68-2
CMF C25 H25 N O5



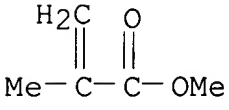
CM 2

CRN 97-88-1
CMF C8 H14 O2



CM 3

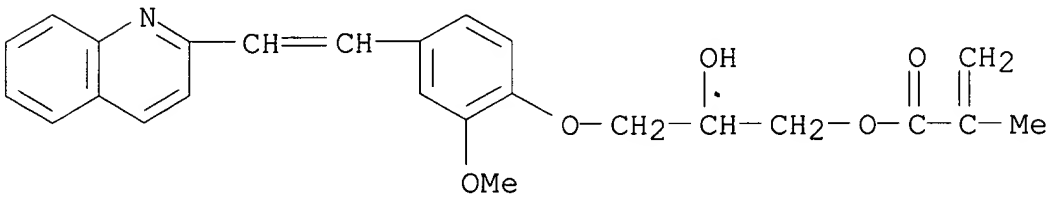
CRN 80-62-6
CMF C5 H8 O2



RN 86112-69-8 ZCA
CN 2-Propenoic acid, 2-methyl-, 2-hydroxy-3-[2-methoxy-4-[2-(2-quinolinyl)ethenyl]phenoxy]propyl ester, polymer with methyl 2-methyl-2-propenoate and 2-propenenitrile (9CI) (CA INDEX NAME)

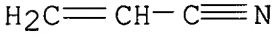
CM 1

CRN 86098-68-2
CMF C25 H25 N O5



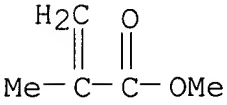
CM 2

CRN 107-13-1
CMF C3 H3 N



CM 3

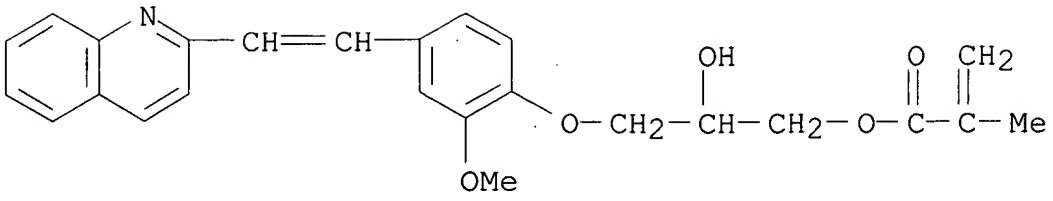
CRN 80-62-6
CMF C5 H8 O2



RN 86112-70-1 ZCA
CN 2-Propenoic acid, 2-methyl-, 2-hydroxy-3-[2-methoxy-4-[2-(2-quinolinyl)ethenyl]phenoxy]propyl ester, polymer with methyl 2-methyl-2-propenoate and methyl 2-propenoate (9CI) (CA INDEX NAME)

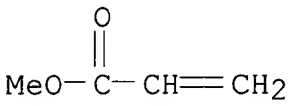
CM 1

CRN 86098-68-2
CMF C25 H25 N O5



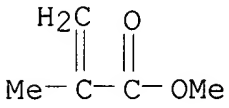
CM 2

CRN 96-33-3
CMF C4 H6 O2



CM 3

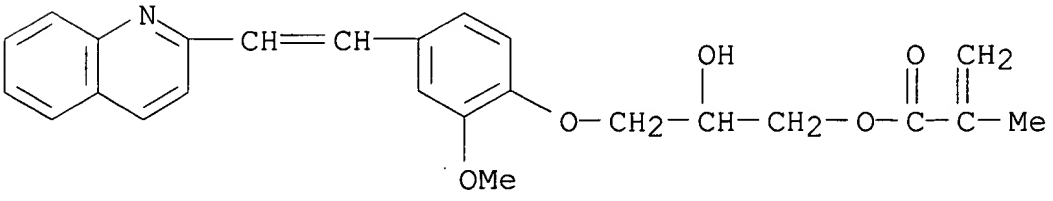
CRN 80-62-6
CMF C5 H8 O2



RN 86112-71-2 ZCA
CN 2-Propenoic acid, 2-methyl-, 2-hydroxy-3-[2-methoxy-4-[2-(2-quinolinyl)ethenyl]phenoxy]propyl ester, polymer with ethyl 2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

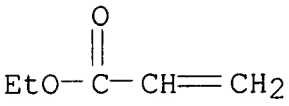
CM 1

CRN 86098-68-2
CMF C25 H25 N O5



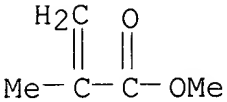
CM 2

CRN 140-88-5
CMF C5 H8 O2



CM 3

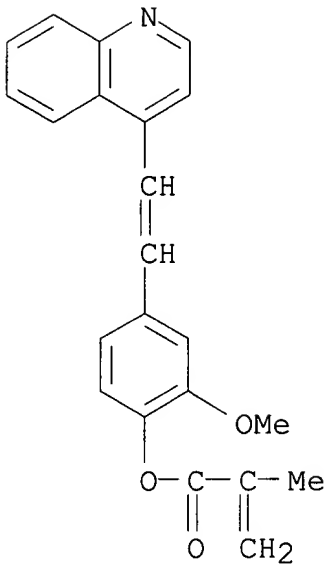
CRN 80-62-6
CMF C5 H8 O2



IT **86112-78-9P**
(prepn. of, as **photoresist**)
RN 86112-78-9 ZCA
CN 2-Propenoic acid, 2-methyl-, 2-methoxy-4-[2-(4-quinolinyl)ethenyl]phenyl ester, polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

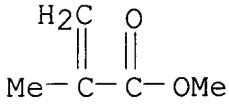
CM 1

CRN 86112-77-8
CMF C22 H19 N O3



CM 2

CRN 80-62-6
CMF C5 H8 O2

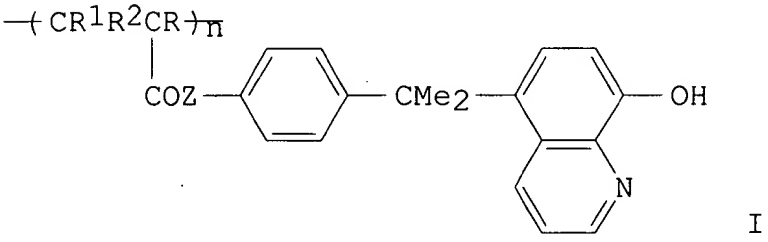


IC C08F299-00
ICA G03C001-68
CC 37-6 (Plastics Manufacture and Processing)
Section cross-reference(s): 14
IT **Resists**
(photo-, prepn. of acrylic-styryl copolymers with high sensitivity for)
IT 86112-66-5P **86112-67-6P 86112-68-7P**
86112-69-8P 86112-70-1P 86112-71-2P
86112-72-3P
(prepn. and photocrosslinking of)
IT **86112-78-9P**
(prepn. of, as **photoresist**)

L36 ANSWER 5 OF 7 ZCA COPYRIGHT 2006 ACS on STN
97:153887 Silver salt emulsion, photographic material and photographic images. Weyde, Edith; Von Rintelen, Harald; Saleck, Wilhelm;

Teitscheid, Heinz Horst (Agfa-Gevaert A.-G. , Fed. Rep. Ger.). Ger. Offen. DE 3137088 A1 **19820506**, 29 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1981-3137088 19810917. PRIORITY: DE 1980-3037384 19801003.

GI



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AB Vesicular photog. materials having improved sensitivity contain a Ag halide emulsion with an av. grain size max. of 0.3 .mu.m that was prepd. in the presence of a polymer having self-repeating units of the formula I (R = H, C1-4 alkyl; R1 = H, C1-4 alkyl; R2 = H, CO2H, or CO2R3 where R3 = C1-8 alkyl; Z = O, NH). Thus, to a 0.1% aq. gelatin soln. contg. an acrylamide-2-[4-methacryloyloxyphenyl]-2-[5-(8-hydroxyqinolyl)]propane-N-vinylpyrrolidone copolymer (II) 83% was added a 0.2% aq. AgNO3 soln. followed by a 0.17% aq. KBr soln. to give a **PAg** of 9. The resulting emulsion was then coated on a cellulose triacetate support at 0.3g/m3, dried, exposed, heated at 100.degree. for 5 s, contacted with a H2O2-contg. film, and then heated at 100.degree. to show a sensitively of 250 and no fog, vs. 100 and no fog for a II-free control.

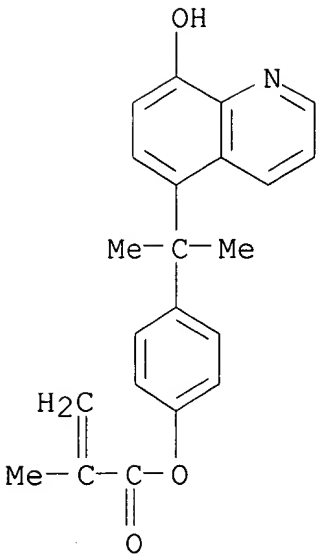
IT **61762-26-3P**
(prepn. of)

RN 61762-26-3 ZCA

CN 2-Propenoic acid, 2-methyl-, 4-[1-(8-hydroxy-5-quinolinyl)-1-methylethyl]phenyl ester, polymer with 2-propenamide and 2-propenoic acid (9CI) (CA INDEX NAME)

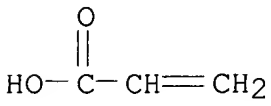
CM 1

CRN 57138-72-4
CMF C22 H21 N O3



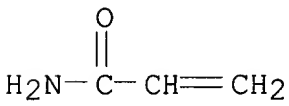
CM 2

CRN 79-10-7
CMF C3 H4 O2



CM 3

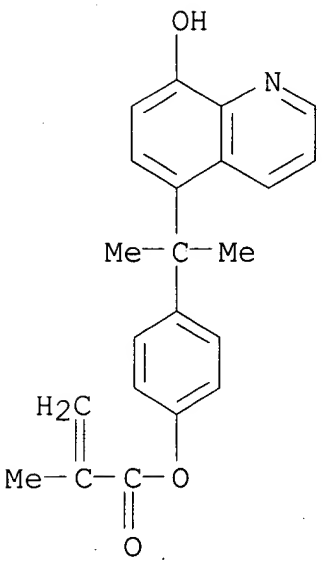
CRN 79-06-1
CMF C3 H5 N O



IT **83200-65-1**
(vesicular photog. materials contg. emulsions prepd. in presence of, for improved sensitivity)
RN 83200-65-1 ZCA
CN 2-Propenoic acid, 2-methyl-, 4-[1-(8-hydroxy-5-quinolinyl)-1-methylethyl]phenyl ester, polymer with 1-ethenyl-2-pyrrolidinone and 2-propenamide (9CI) (CA INDEX NAME)

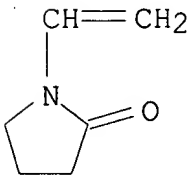
CM 1

CRN 57138-72-4
CMF C22 H21 N O3



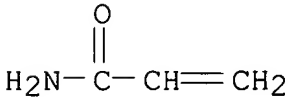
CM 2

CRN 88-12-0
CMF C6 H9 N O



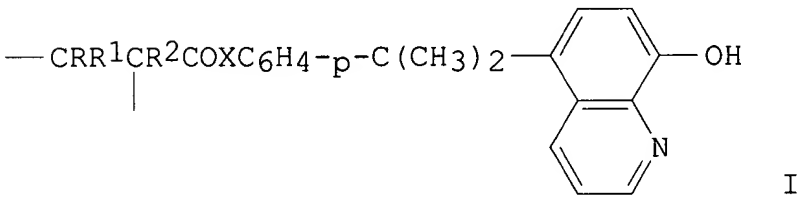
CM 3

CRN 79-06-1
CMF C3 H5 N O



IC G03C001-04
CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
IT **61762-26-3P**
(prepn. of)
IT **83200-65-1**
(vesicular photog. materials contg. emulsions prepd. in presence of, for improved sensitivity)

L36 ANSWER 6 OF 7 ZCA COPYRIGHT 2006 ACS on STN
97:101662 Silver salt emulsion photographic material and process for the production of photographic images. Weyde, Edith; Von Rintelen, Harald; Saleck, Wilhelm; Teitscheid, Heinz Horst (Agfa-Gevaert A.-G., Fed. Rep. Ger.). Brit. UK Pat. Appl. GB 2085181 A **19820421**, 10 pp. (English). CODEN: BAXXDU. APPLICATION: GB 1981-29237 19810928. PRIORITY: DE 1980-3037384 19801003.
GI



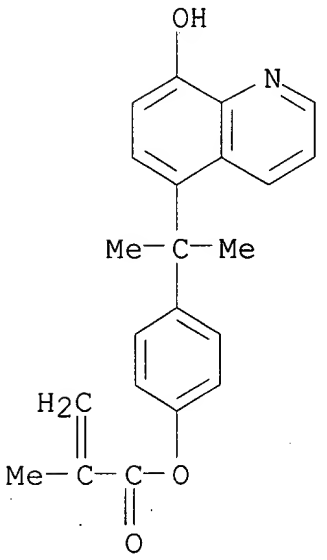
I

AB A highly sensitive Ag halide emulsion for photog. vesicular imaging is prepd. in the presence of a polymeric compd. having the recurring unit I (R = H, Me; R1 = H, CO2H, CO2R3 where R3 = C1-8 alkyl, cycloalkyl; R2 = H, Me; X = O, NH). Thus, a 0.1% gelatin soln. contg. acrylamide-N-vinylpyrrolidone-2-[4-methacryloyloxyphenyl]-2-[5-(8-hydroxyquinolyl)]propane copolymer 75% was mixed at 40.degree. with 0.2% aq. AgNO3 and 0.17% aq. KBr (to adjust **pAg** to 9), and 10% gelatin was added to solidify the emulsion. The emulsion after being mixed with an aq. saponin soln. and an aq. 1-phenyl-3-pyrazolidone soln. (pH adjusted to 5.7-5.8 with borax) was coated on a cellulose triacetate support, exposed, heated at 100.degree. for 5 s, and heated at 100.degree. in close contact with a foil contg. H2O2 to provide a fog-free image with a speed of 200.
IT **82540-02-1**
(photog. silver halides vesicular emulsion contg.)
RN 82540-02-1 ZCA
CN 2-Propenoic acid, 2-methyl-, 4-[1-(8-hydroxy-5-quinolinyl)-1-methylethyl]phenyl ester, polymer with 1-ethenyl-2-pyrrolidinone and

2-propenoic acid (9CI) (CA INDEX NAME)

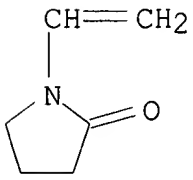
CM 1

CRN 57138-72-4
CMF C22 H21 N O3



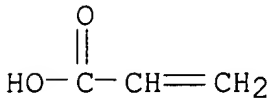
CM 2

CRN 88-12-0
CMF C6 H9 N O



CM 3

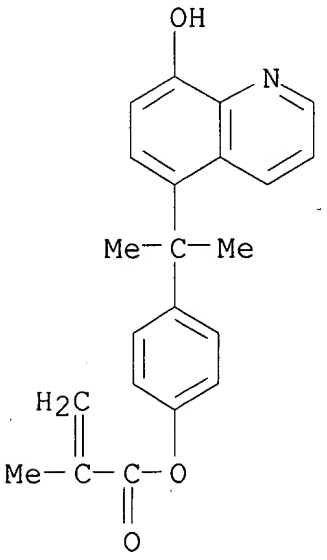
CRN 79-10-7
CMF C3 H4 O2



IT **61762-26-3P**
(prepn. of, for photog. vesicular silver halide emulsion)
RN 61762-26-3 ZCA
CN 2-Propenoic acid, 2-methyl-, 4-[1-(8-hydroxy-5-quinolinyl)-1-methylethyl]phenyl ester, polymer with 2-propenamide and 2-propenoic acid (9CI) (CA INDEX NAME)

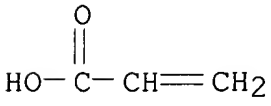
CM 1

CRN 57138-72-4
CMF C22 H21 N O3



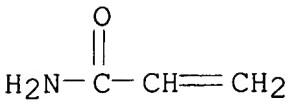
CM 2

CRN 79-10-7
CMF C3 H4 O2



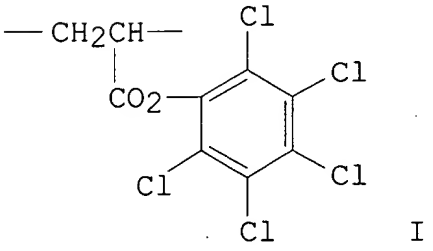
CM 3

CRN 79-06-1
CMF C3 H5 N O

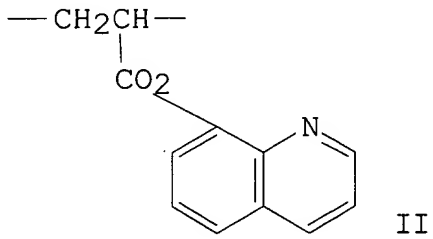


IC G03C001-08; G03C001-04; G03C001-72
CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
IT **82540-02-1**
(photog. silver halides vesicular emulsion contg.)
IT **61762-26-3P**
(prepn. of, for photog. vesicular silver halide emulsion)

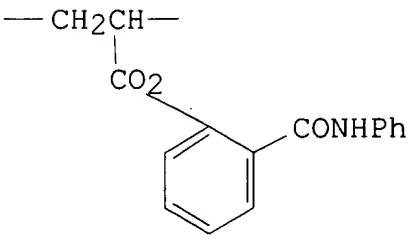
L36 ANSWER 7 OF 7 ZCA COPYRIGHT 2006 ACS on STN
88:137958 Synthesis and mildew resistance of vinyl acetate and ethyl acrylate films containing chemically anchored fungicides. Pittman, Charles U., Jr.; Stahl, G. Allan; Winters, Harvey (Dep. Chem., Univ. Alabama, University, AL, USA). Journal of Coatings Technology, 50(636), 49-56 (English) **1978**. CODEN: JCTEDL. ISSN: 0361-8773.
GI



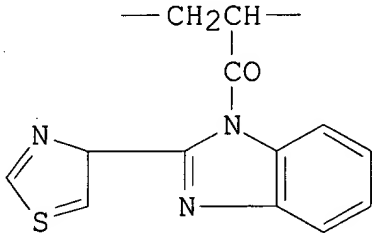
I



II



III



IV

AB Vinyl acetate and Et acrylate polymers contg. 0-5 mol% fungicidal groups I-II gave coatings which **resist** Aspergillus sp., Alternaria sp., Aureobasidium pullulans, and Pseudomonus sp. The fungicidal coatings were prepd. by copolymg. vinyl acetate or Et

acrylate with pentachlorophenyl acrylate (V) [4513-43-3], 8-quinolyl acrylate (VI) [34493-87-3], 2-(phenylaminocarbonyl)phenyl acrylate (VII) [56525-45-2], or 2-(4-thiazolyl)-1-benzimidazolyl acrylate (VIII) [65993-01-3] in bulk with (Me2CCN)2N2 or tert-Bu peroxypivalate as the initiator. The attempted introduction of I-IV groups into vinyl acetate and Et acrylate polymers by treating them with SOCl2 and then with pentachlorophenol (IX) [87-86-5], 8-hydroxyquinoline (X) [148-24-3], salicylanilide (XI) [87-17-2], or 2-(4-thiazolyl)benzimidazole Na salt (XII) [51672-23-2] was unsuccessful because of the extensive hydrolytic polymer degrdn. The fungicidal monomers were prepd. by reacting acryloyl chloride [814-68-6] with IX, X,XI, or XII. Blending IX-XII with vinyl acetate or Et acrylate polymers increased their fungal resistance only temporarily since these biocides were easily leached out.

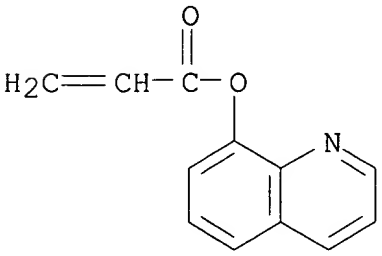
IT **65992-97-4P 65993-00-2P**
(prepn. of, for fungicidal coatings)

RN 65992-97-4 ZCA

CN 2-Propenoic acid, ethyl ester, polymer with 8-quinolinyl 2-propenoate (9CI) (CA INDEX NAME)

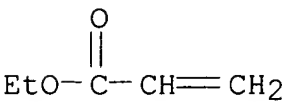
CM 1

CRN 34493-87-3
CMF C12 H9 N O2



CM 2

CRN 140-88-5
CMF C5 H8 O2

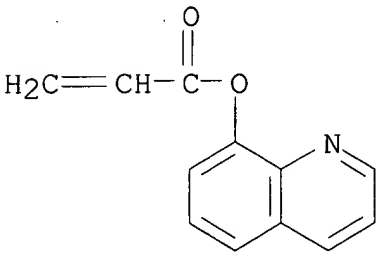


RN 65993-00-2 ZCA

CN 2-Propenoic acid, 8-quinolinyl ester, polymer with ethenyl acetate (9CI) (CA INDEX NAME)

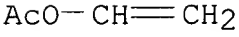
CM 1

CRN 34493-87-3
CMF C12 H9 N O2



CM 2

CRN 108-05-4
CMF C4 H6 O2



CC 42-10 (Coatings, Inks, and Related Products)
Section cross-reference(s): 27, 28

IT 65992-96-3P **65992-97-4P** 65992-98-5P 65992-99-6P
65993-00-2P 65993-02-4P 66030-31-7P 66098-18-8P
(prepn. of, for fungicidal coatings)

=> d l41 1-4 ti

L41 ANSWER 1 OF 4 ZCA COPYRIGHT 2006 ACS on STN
TI Silver halide color photographic photosensitive materials

L41 ANSWER 2 OF 4 ZCA COPYRIGHT 2006 ACS on STN
TI Reaction mechanism of quinoxaline derivatives with benzopinacol

L41 ANSWER 3 OF 4 ZCA COPYRIGHT 2006 ACS on STN
TI Polymers from 6-acryloylamino-2,3-diphenylquinoxaline

L41 ANSWER 4 OF 4 ZCA COPYRIGHT 2006 ACS on STN
TI Photoinduced polymerization of methyl methacrylate in the presence

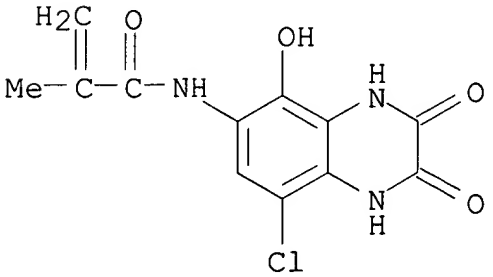
of low- and high-molecular-weight quinoxaline derivatives

=> d l41 1 cbib abs hitstr hitrn

L41 ANSWER 1 OF 4 ZCA COPYRIGHT 2006 ACS on STN
105:162154 Silver halide color photographic photosensitive materials. Matsunaga, Satoshi; Sasaki, Takashi; Yoshimoto, Shinji; Mizukura, Noboru; Ueda, Eiichi (Konishiroku Photo Industry Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 61039044 A2 **19860225** Showa, 23 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1984-160859 19840731.
GI For diagram(s), see printed CA Issue.
AB The claimed color photog. photosensitive materials contain polymeric cyan couplers having structural units derived from monomers of the formula I (A = 5- or 6-membered ring; R = group contg. ethylenically unsatd. group; R1 = H or a group which is released during coupling reaction). The couplers give dye images with good light and heat fastness without causing yellow stains. Thus, II was copolymd. with Me acrylate and methacrylic acid to give a polymeric cyan coupler. A photog. color paper prepd. by using the coupler showed high optical d. and very low fog.
IT **104594-03-8 104594-23-2 104594-25-4 104594-34-5 104594-35-6 104594-41-4 104594-42-5**
(photog. cyan coupler)
RN 104594-03-8 ZCA
CN 2-Propenoic acid, 2-methyl-, polymer with N-(8-chloro-1,2,3,4-tetrahydro-5-hydroxy-2,3-dioxo-6-quinoxalinyl)-2-methyl-2-propenamide and methyl 2-propenoate (9CI) (CA INDEX NAME)

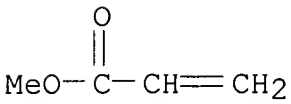
CM 1

CRN 104594-02-7
CMF C12 H10 Cl N3 O4



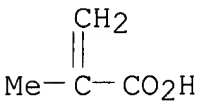
CM 2

CRN 96-33-3
CMF C4 H6 O2



CM 3

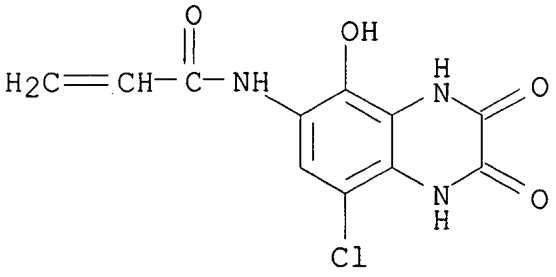
CRN 79-41-4
CMF C4 H6 O2



RN 104594-23-2 ZCA
CN 2-Propenoic acid, butyl ester, polymer with N-(8-chloro-1,2,3,4-tetrahydro-5-hydroxy-2,3-dioxo-6-quinoxalinyl)-2-propenamide and ethyl 2-propenoate (9CI) (CA INDEX NAME)

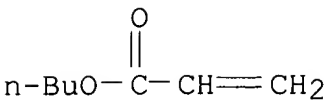
CM 1

CRN 104594-22-1
CMF C11 H8 Cl N3 O4



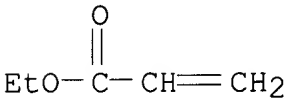
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

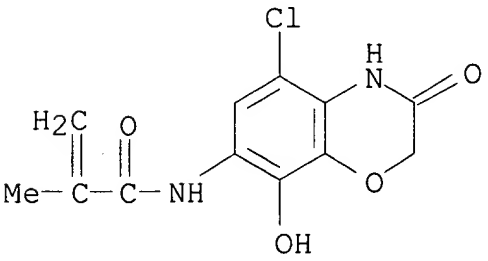
CRN 140-88-5
CMF C5 H8 O2



RN 104594-25-4 ZCA
CN 2-Propenoic acid, butyl ester, polymer with N-(5-chloro-3,4-dihydro-8-hydroxy-3-oxo-2H-1,4-benzoxazin-7-yl)-2-methyl-2-propenamide and 2-propenamide (9CI) (CA INDEX NAME)

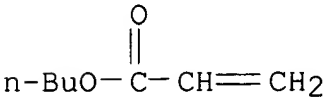
CM 1

CRN 104594-24-3
CMF C12 H11 Cl N2 O4



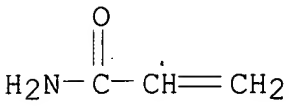
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

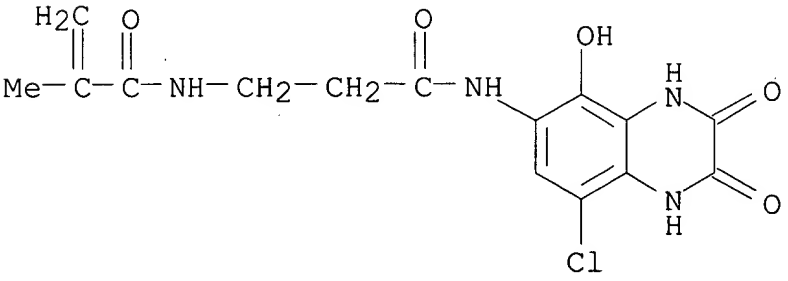
CRN 79-06-1
CMF C3 H5 N O



RN 104594-34-5 ZCA
CN 2-Propenoic acid, 2-methyl-, polymer with N-[3-[(8-chloro-1,2,3,4-tetrahydro-5-hydroxy-2,3-dioxo-6-quinoxalinyl)amino]-3-oxopropyl]-2-methyl-2-propenamide and methyl 2-propenoate (9CI) (CA INDEX NAME)

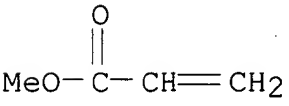
CM 1

CRN 104594-33-4
CMF C15 H15 Cl N4 O5



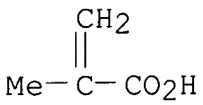
CM 2

CRN 96-33-3
CMF C4 H6 O2



CM 3

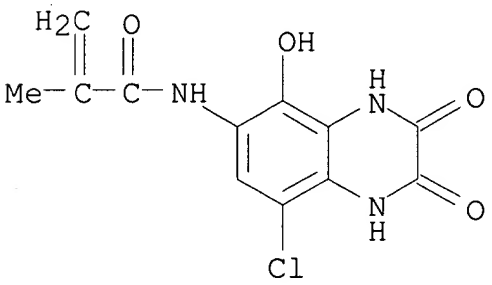
CRN 79-41-4
CMF C4 H6 O2



RN 104594-35-6 ZCA
CN 2-Propenoic acid, ethyl ester, polymer with N-(8-chloro-1,2,3,4-tetrahydro-5-hydroxy-2,3-dioxo-6-quinoxalinyl)-2-methyl-2-propenamide and 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid (9CI) (CA INDEX NAME)

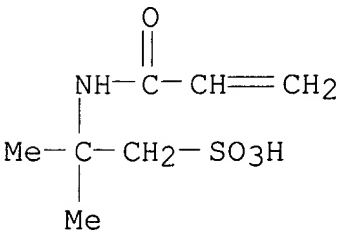
CM 1

CRN 104594-02-7
CMF C12 H10 Cl N3 O4



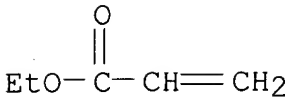
CM 2

CRN 15214-89-8
CMF C7 H13 N O4 S



CM 3

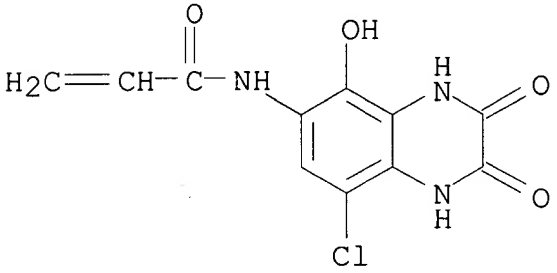
CRN 140-88-5
CMF C5 H8 O2



RN 104594-41-4 ZCA
CN 2-Propenoic acid, polymer with N-(8-chloro-1,2,3,4-tetrahydro-5-hydroxy-2,3-dioxo-6-quinoxalinyl)-2-propenamide and propyl 2-propenoate (9CI) (CA INDEX NAME)

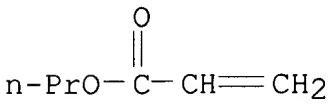
CM 1

CRN 104594-22-1
CMF C11 H8 Cl N3 O4



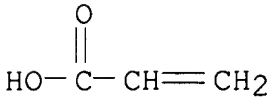
CM 2

CRN 925-60-0
CMF C6 H10 O2



CM 3

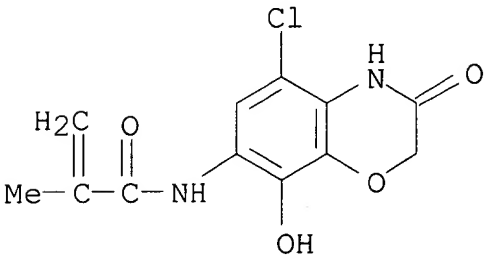
CRN 79-10-7
CMF C3 H4 O2



RN 104594-42-5 ZCA
CN 2-Propenoic acid, 2-methyl-, polymer with N-(5-chloro-3,4-dihydro-8-hydroxy-3-oxo-2H-1,4-benzoxazin-7-yl)-2-methyl-2-propenamide and ethyl 2-propenoate (9CI) (CA INDEX NAME)

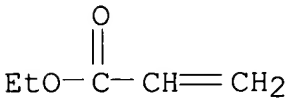
CM 1

CRN 104594-24-3
CMF C12 H11 Cl N2 O4



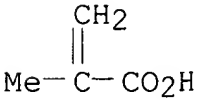
CM 2

CRN 140-88-5
CMF C5 H8 O2



CM 3

CRN 79-41-4
CMF C4 H6 O2



IT **104594-03-8 104594-23-2 104594-25-4 104594-34-5 104594-35-6 104594-41-4 104594-42-5**
(photog. cyan coupler)

=> d l42 1-110 ti

L42 ANSWER 1 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Preparation of cinchonan based chiral selectors for chiral stationary phases for high-performance liquid chromatography

L42 ANSWER 2 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Liquid toner dispersions yielding crosslinkable films

L42 ANSWER 3 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Heat-activatable acrylic adhesives with low activation temperatures

L42 ANSWER 4 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Soluble Polymer-Bound Ligand-Accelerated Catalysis: Asymmetric Dihydroxylation

L42 ANSWER 5 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Homopolymers of 5-chloro-8-quinolinyl acrylate and 5-chloro-8-quinolinyl methacrylate and their copolymers with acrylic and methacrylic acid

L42 ANSWER 6 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Efficient and practical polymeric catalysts for heterogeneous asymmetric dihydroxylation of olefins

L42 ANSWER 7 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Liquid toners with hydrocarbon solvents

L42 ANSWER 8 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI 5-Chloro-8-quinolinyl acrylate and N-vinyl-2-pyrrolidone copolymers: synthesis, characterization and complexes with poly(methacrylic acid)

L42 ANSWER 9 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Liquid toner composition from soluble polymeric dispersants with reactive groups

L42 ANSWER 10 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Synthesis of optically active diols using an efficient polymer bound cinchona alkaloid derivative

L42 ANSWER 11 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Optically active polymers with cinchona alkaloids. 1. Synthesis and characterization of cinchona alkaloid/acrylamide copolymers

L42 ANSWER 12 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Polymeric cinchona alkaloids for the heterogeneous catalytic

asymmetric dihydroxylation of olefins: the influence of the polymer backbone polarity on the compatibility between polymer support and reaction medium

L42 ANSWER 13 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Synthesis and Liquid Crystallinity of Polymethacrylate Systems Containing both Electron-Donating (Quinolinylmethylene)aniline and Electron-Accepting (4'-Nitrobenzylidene)aniline Groups

L42 ANSWER 14 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Antagonism inhibitors for mixts. of broad-leaf weed herbicides with narrow-leaf weed herbicides.

L42 ANSWER 15 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Selective permeation of metal ions through cation exchange membrane carrying N-(8-quinolyl)sulfonamide as a chelating ligand

L42 ANSWER 16 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Heterogeneous enantioselective dihydroxylation of aliphatic olefins: a comparison between different polymeric cinchona alkaloid derivatives

L42 ANSWER 17 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Unprecedented reactivity and selectivity in heterogeneous asymmetric catalytic dihydroxylation of alkenes

L42 ANSWER 18 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI direct-positive color photographic material

L42 ANSWER 19 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Preparation of bactericidal 2-hydroxyethyl methacrylate hydrogel copolymers for soft contact lenses

L42 ANSWER 20 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Ultraviolet spectrophotometric studies of the reactivity of a water-soluble polymer containing pendant 8-hydroxyquinoline moieties with metal ions

L42 ANSWER 21 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Polymeric cinchona alkaloids as catalysts in the enantioselective 2,2-cycloaddition reaction of ketene and chloral

L42 ANSWER 22 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Radical polymerization of 2-vinyl-8-quinolinol and complexation of its copolymers with copper(II)

L42 ANSWER 23 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Silver halide photographic material chemically sensitized by Te

compound in presence of low molecular gelatin and synthetic colloid

L42 ANSWER 24 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Manufacture of chemically resistant and durable pervaporation membranes

L42 ANSWER 25 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Preparation of water soluble polymer with 8-quinolinol group and its specific reactivity with Cd(II)

L42 ANSWER 26 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Photophysical and Electron-Transfer Properties of Pseudoisocyanine in the Hydrophobic Microdomain of an Aqueous Polyelectrolyte

L42 ANSWER 27 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Heat-developable color photographic material and image formation method

L42 ANSWER 28 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Dihydroquinidine and dihydroquinine derivatives as chiral ligands and method for catalytic asymmetric dihydroxylation of olefins

L42 ANSWER 29 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Preparation of optically active phenoxybenzaldehydes cyanohydrin derivatives as intermediates for insecticides

L42 ANSWER 30 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Organic thin-film electroluminescent elements

L42 ANSWER 31 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Photopolymerization of acrylonitrile sensitized by binary component initiators consisting of 8-acryloyloxyquinoline or its polymer with carbon tetrabromide

L42 ANSWER 32 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI One-pot synthesis of optically active cyanohydrin acetates from aldehydes via quinidine-catalyzed transhydrocyanation coupled with lipase-catalyzed kinetic resolution in organic solvent

L42 ANSWER 33 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Heterocyclic chiral ligands and method for catalytic asymmetric dihydroxylation of olefins

L42 ANSWER 34 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Heat-developable color photographic material

L42 ANSWER 35 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Heterogeneous catalytic asymmetric dihydroxylation of olefins with

the OsO4/poly(9-O-acylquinine-co-acrylonitrile) system

L42 ANSWER 36 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Bidentate chelating monomers with ethylenic unsaturation and polymers prepared from them

L42 ANSWER 37 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Asymmetric hydrocyanation of 3-phenoxybenzaldehyde catalyzed by poly(cinchona alkaloid-co-acrylonitrile)s

L42 ANSWER 38 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Photopolymerization of acrylonitrile sensitized by 8-acryloyloxyquinoline and its polymer

L42 ANSWER 39 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Silver halide photographic material and its manufacture

L42 ANSWER 40 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Nonspecific interactions in polymer-polymer reactions. 1. Complex formation between polycarboxylic acids and 5-nitro-8-quinolinoxyl derivatives of polyethylene glycols

L42 ANSWER 41 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Heterogeneous catalytic asymmetric dihydroxylation: use of a polymer-bound alkaloid

L42 ANSWER 42 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI pH-dependent fluorescence of merocyanine-eosin-labeled water-soluble polymers

L42 ANSWER 43 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Quinoline oxide nonlinear optical devices

L42 ANSWER 44 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Preparation of fluorogenic proteinase substrates coupled to a polymer matrix

L42 ANSWER 45 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Release of 8-hydroxyquinoline from copolymers of 8-quinolinyl acrylate and acrylamide

L42 ANSWER 46 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Synthesis of a chelating film with selectivity for metal ions

L42 ANSWER 47 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Polymer complexes. Part IV. Thermal stability of poly(8-quinolyl acrylate) and the polymers of the complexes of 8-quinolyl acrylate with some transition metal salts

L42 ANSWER 48 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Preparation of optically-active cyanohydrins as intermediates for agrochemicals

L42 ANSWER 49 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Asymmetric induction in the base-catalyzed reactions using polymer-supported quinines with spacer groups

L42 ANSWER 50 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI High-pressure asymmetric Michael additions of thiols, nitromethane, and methyl oxoindancarboxylate to enones

L42 ANSWER 51 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Study on the fluorescence spectra of acrylates of 8-hydroxyquinoline and their polymers

L42 ANSWER 52 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Photosensitive poly(methacrylates) having styrylpyridinium and styrylquinolinium groups

L42 ANSWER 53 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Electrostatic potential and polarity at the molecular surface of polyelectrolytes as probed by pH-sensitive chromophores covalently attached to the main chain

L42 ANSWER 54 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Syntheses and some spectroscopic properties of polyanions with pendant merocyanine dyes

L42 ANSWER 55 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Marine antifouling coating compositions

L42 ANSWER 56 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Bidentate chelating agent contg. monomers and their polymers

L42 ANSWER 57 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Chiral polymeric halogen adducts. Synthesis and reactivity

L42 ANSWER 58 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Asymmetric reactions catalyzed by polymeric cinchona alkaloids

L42 ANSWER 59 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Chelating polymers for modifying metal surface properties

L42 ANSWER 60 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Electrophotographic liquid developer

L42 ANSWER 61 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Electrostatographic liquid developers

L42 ANSWER 62 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Photocurable polymers

L42 ANSWER 63 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Marine paint

L42 ANSWER 64 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Preliminary evaluations of the biological activity of polymers with chemically bound biocides

L42 ANSWER 65 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Synthesis of fungicidal monomers, polymers, and latices

L42 ANSWER 66 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Functional polymers. VII. C(3)-control of stereochemistry in asymmetric reactions catalyzed by polymeric cinchona alkaloids

L42 ANSWER 67 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Functional polymers. 6. Unusual catalysis of polymeric Cinchona alkaloids in asymmetric reaction

L42 ANSWER 68 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Functional polymers. V. Asymmetric addition of benzyl mercaptan to methyl .alpha.-phthalimidoacrylate catalyzed by acrylonitrile-cinchona alkaloid copolymers

L42 ANSWER 69 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Functional polymers. II. Synthesis and properties of new polymeric cinchona alkaloids

L42 ANSWER 70 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Reactive polymer carriers

L42 ANSWER 71 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Functional polymers. 4. Asymmetric addition of dodecanethiol to isopropenyl methyl ketone catalyzed by cinchona alkaloid-acrylonitrile copolymers

L42 ANSWER 72 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Acrylonitrile copolymers with quinine derivatives

L42 ANSWER 73 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Polymers and copolymers of N-alkylmethacrylamides, N-alkylacrylamides and N,N-dialkylacrylamides

L42 ANSWER 74 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Preparation and properties of enzymes immobilized on supports activated by metal ions

L42 ANSWER 75 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Spinnable acrylic copolymers

L42 ANSWER 76 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Synthesis and polymerization of polymethacrylates containing the quinine residue. Comparative study of the toxicity and immunogenicity of the free and polymeric form

L42 ANSWER 77 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Asymmetric reactions. III. The asymmetric synthesis of methyl 2-phenylpropionate in the presence of chiral polymers

L42 ANSWER 78 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Asymmetric, partial acetylation of dl-1-phenylethanol by means of chiral polymers

L42 ANSWER 79 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Synthesis of ligand-containing polymers based on lysine and 8-hydroxyquinoline

L42 ANSWER 80 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Liquid developer for developing an electrostatic latent image

L42 ANSWER 81 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Photographic silver halide emulsion

L42 ANSWER 82 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Asymmetric reactions. II. Asymmetric synthesis of methyl .alpha.-phenylpropionate by means of chiral polymers

L42 ANSWER 83 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Syntheses and reactions of optically active polymers. II. Preparations of optically active polymers containing quinine, L-ephedrine, and L-histidine residues and their reactions with .alpha.-cyanoethylaquocobaloxime

L42 ANSWER 84 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Photographic silver halide emulsion

L42 ANSWER 85 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI New 8-quinolinol-containing polycondensates and addition polymers

L42 ANSWER 86 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Asymmetry in the main chain of poly-9-O-methacryloylquinine

L42 ANSWER 87 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Liquid developer for electrostatic latent images

L42 ANSWER 88 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Liquid developer for electrostatic latent images

L42 ANSWER 89 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Mixed polymers of N-substituted acrylamides, N-substituted methylacrylamides, and N,N-disubstituted acrylamides

L42 ANSWER 90 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Functional 8-hydroxyguinolines and their use as intermediates

L42 ANSWER 91 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Polymers containing 8-hydroxyquinoline groups

L42 ANSWER 92 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Polymerizable 8-hydroxyquinolyl group-containing .alpha.,.beta.-monoolefinically unsaturated monomers

L42 ANSWER 93 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Stereoregularities of acrylic polymers containing bulky substituents obtained by radical polymerization

L42 ANSWER 94 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Antimicrobial hydroxy quinoline, ethylene-acrylic polymer compositions

L42 ANSWER 95 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Rustproofing compositions

L42 ANSWER 96 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Corrosion-resistant acid-soluble coating materials

L42 ANSWER 97 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Adhesive compositions

L42 ANSWER 98 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Asymmetric reactions. 1. Asymmetric synthesis of methyl .alpha.-phenylpropionate by means of optically active polymers

L42 ANSWER 99 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Coating compositions

L42 ANSWER 100 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Thermosetting resin compositions

L42 ANSWER 101 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Polymers self-hardening at room temperature

L42 ANSWER 102 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Polymers of .alpha.,.beta.-unsaturated acid quinine esters

L42 ANSWER 103 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Vinyl polymerization. 279. Synthesis and polymerization of 9-acryloxyquinine

L42 ANSWER 104 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Vinyl polymerization. 272. Synthesis and polymerization of 9-O-methacryloylquinine

L42 ANSWER 105 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Chelates of poly(acrylic acid) with certain ammonium salts

L42 ANSWER 106 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Preparation of copolymers based on derivatives of 8-hydroxyquinoline and vinyl monomers

L42 ANSWER 107 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Homopolymers and copolymers of 5- or 7-acrylamidomethyl-8-hydroxyquinoline and their metal complexes active as bactericides and fungicides

L42 ANSWER 108 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI A method for manufacturing polypropylene fibers

L42 ANSWER 109 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Photographic sensitizer intermediates

L42 ANSWER 110 OF 110 ZCA COPYRIGHT 2006 ACS on STN
TI Polymeric acrylonitriles in electrophotography

=> d l42 2,9,18,23,27,30,34,39,60,61,62,80,81,84,88,109 cbib abs hitstr hitrn

L42 ANSWER 2 OF 110 ZCA COPYRIGHT 2006 ACS on STN
127:168931 Liquid toner dispersions yielding crosslinkable films. Rao, S. P.; Mikelsons, V.; Ruta, A. G. (3M Corporation, St. Paul, MN, USA). IS&T's Annual Conference, Final Program and Proceedings, 49th, Minneapolis, May 19-24, 1996, 545-547. IS&T--The Society for Imaging Science and Technology: Springfield, Va. (English) **1996**. CODEN: 64RAAJ.
AB Dispersions of cyan, magenta, and yellow pigments in Isopar solvents

were prepd. using novel polymeric dispersants contg. reactive functional groups such as thermally crosslinkable peroxy groups which were synthesized. These toners were used in electrog. for printing 4-color imaged toner films on the release layer of a dielec. receptor paper. The overprinted toner film layers could be crosslinked thermally at >140.degree. to improve scratch resistance and mech. durability. Thermal curing of the films were obsd. by changes in the dynamic mech. properties of the films of the dispersants after heat treatment.

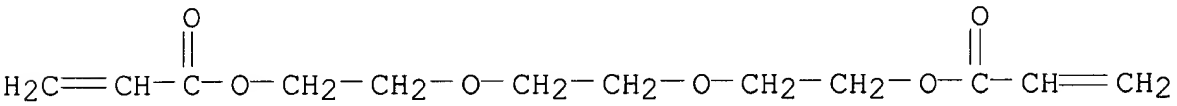
IT **193737-99-4 193738-00-0 193738-01-1**
(dispersants; liq. four-color toner dispersions contg. dispersants of acrylate polymers with thermally crosslinkable peroxy groups)

RN 193737-99-4 ZCA

CN 2-Propenoic acid, 2-methyl-, 4-benzoyl-3-hydroxyphenyl ester, polymer with dodecyl 2-methyl-2-propenoate, ethenylmethylbenzene, (8-hydroxy-5-quinolinyl)methyl 2-methyl-2-propenoate, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] di-2-propenoate and exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

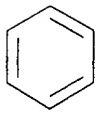
CRN 42978-66-5
CMF C15 H24 O6
CCI IDS



3 (D1—Me)

CM 2

CRN 25013-15-4
CMF C9 H10
CCI IDS



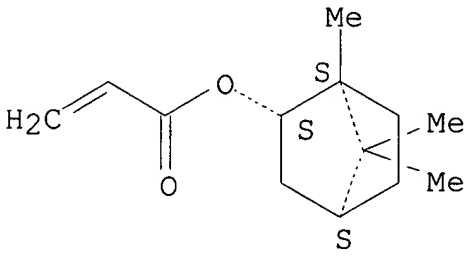
D1—Me

D1—CH═CH$_2$

CM 3

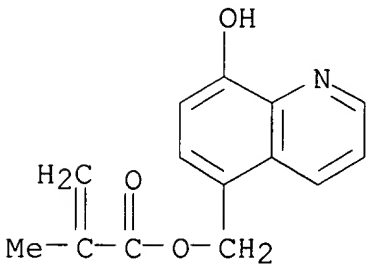
CRN 5888-33-5
CMF C13 H20 O2

Relative stereochemistry.



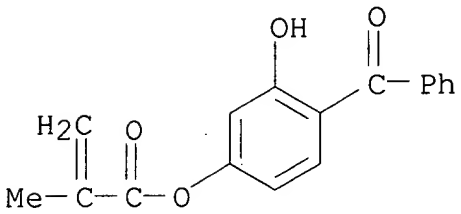
CM 4

CRN 3327-19-3
CMF C14 H13 N O3



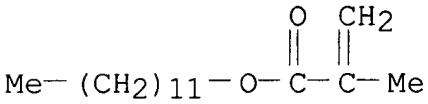
CM 5

CRN 2035-72-5
CMF C17 H14 O4



CM 6

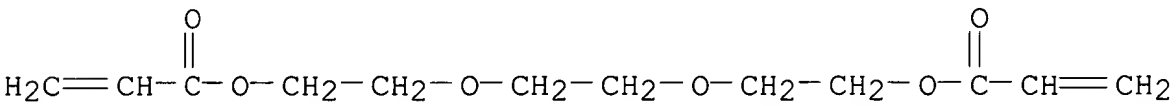
CRN 142-90-5
CMF C16 H30 O2



RN 193738-00-0 ZCA
CN 3-Buteneperoxoic acid, 1,1-dimethylethyl ester, polymer with 4-benzoyl-3-hydroxyphenyl 2-methyl-2-propenoate, dodecyl 2-methyl-2-propenoate, ethenylmethylbenzene, (8-hydroxy-5-quinolinyl)methyl 2-methyl-2-propenoate, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] di-2-propenoate and exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate (9CI) (CA INDEX NAME)

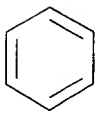
CM 1

CRN 42978-66-5
CMF C15 H24 O6
CCI IDS



CM 2

CRN 25013-15-4
CMF C9 H10
CCI IDS

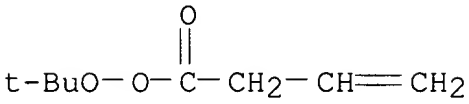


D1—Me

D1—CH═CH$_2$

CM 3

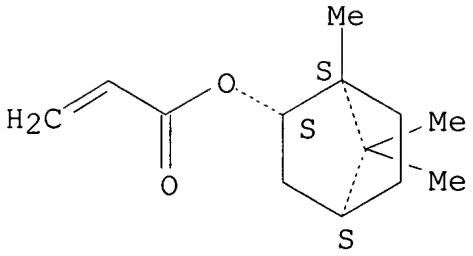
CRN 14970-32-2
CMF C8 H14 O3



CM 4

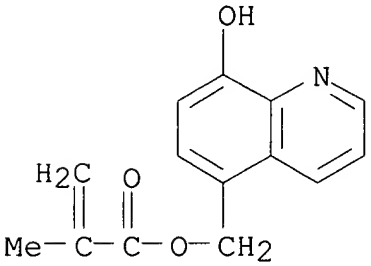
CRN 5888-33-5
CMF C13 H20 O2

Relative stereochemistry.



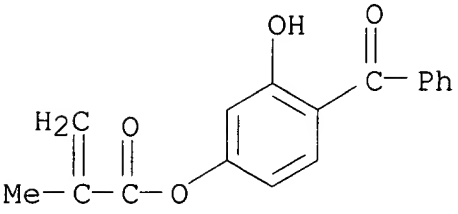
CM 5

CRN 3327-19-3
CMF C14 H13 N O3



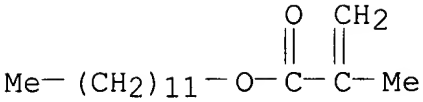
CM 6

CRN 2035-72-5
CMF C17 H14 O4



CM 7

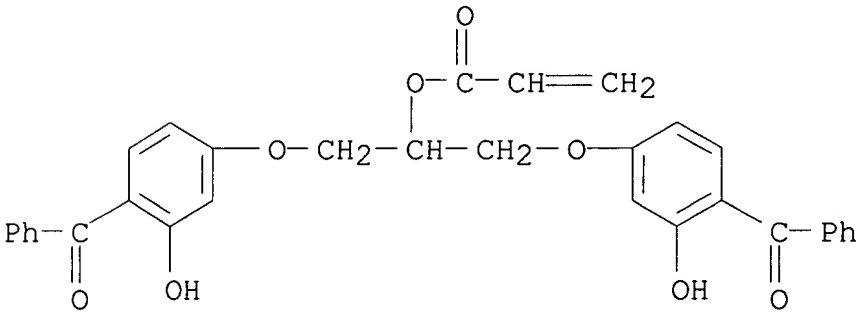
CRN 142-90-5
CMF C16 H30 O2



RN 193738-01-1 ZCA
CN 3-Buteneperoxoic acid, 1,1-dimethylethyl ester, polymer with 2-(4-benzoyl-3-hydroxyphenoxy)-1-[(4-benzoyl-3-hydroxyphenoxy)methyl]ethyl 2-propenoate, dodecyl 2-methyl-2-propenoate, ethenylmethylbenzene, (8-hydroxy-5-quinolinyl)methyl 2-methyl-2-propenoate, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] di-2-propenoate and exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate (9CI) (CA INDEX NAME)

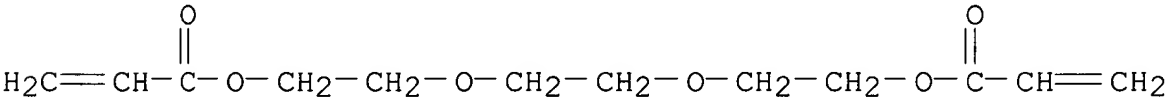
CM 1

CRN 103637-50-9
CMF C32 H26 O8



CM 2

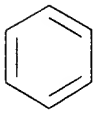
CRN 42978-66-5
CMF C15 H24 O6
CCI IDS



3 (D1—Me)

CM 3

CRN 25013-15-4
CMF C9 H10
CCI IDS

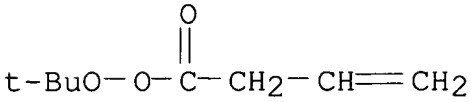


D1—Me

D1—CH═CH$_2$

CM 4

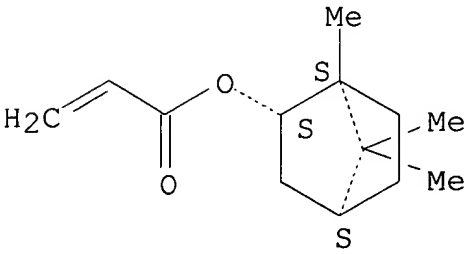
CRN 14970-32-2
CMF C8 H14 O3



CM 5

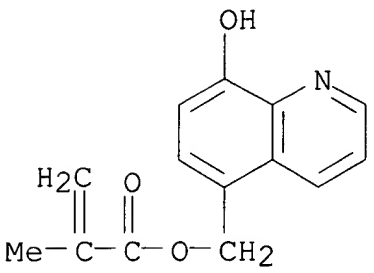
CRN 5888-33-5
CMF C13 H20 O2

Relative stereochemistry.



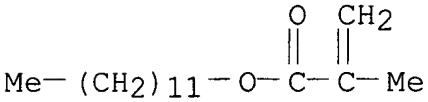
CM 6

CRN 3327-19-3
CMF C14 H13 N O3



CM 7

CRN 142-90-5
CMF C16 H30 O2



IT **193737-99-4 193738-00-0 193738-01-1**
(dispersants; liq. four-color toner dispersions contg. dispersants of acrylate polymers with thermally crosslinkable peroxy groups)

L42 ANSWER 9 OF 110 ZCA COPYRIGHT 2006 ACS on STN
124:274410 Liquid toner composition from soluble polymeric dispersants with reactive groups. Rao, S. Prabhakara; Mikelsons, Valdis (Minnesota Mining and Manufacturing Co., USA). U.S. US 5482809 A **19960109**, 10 pp. (English). CODEN: USXXAM. APPLICATION: US 1994-260696 19940616.

AB A liq. toner compn. for use in electrog. imaging comprises a non-aq. solvent and a sol. dispersant made from thermodynamically compatible polymers contg. functional groups with good adsorption properties for cyan, magenta, yellow, and black pigments. The invention also describes the incorporation of reactive functional groups that crosslink on heat treatment to improve modulus and scratch resistance.

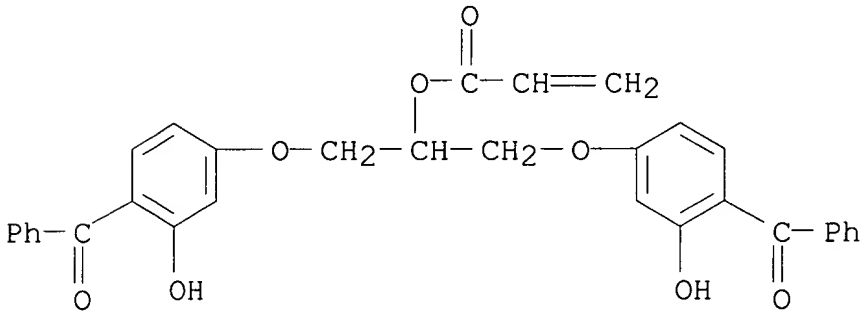
IT **174672-75-4P 174672-76-5P 174672-77-6P**
174672-78-7P 174672-79-8P 174672-80-1P

174672-81-2P 174672-82-3P 174672-83-4P
175447-77-5P 175524-26-2P
(liq. electrostatog. developers contg. org. pigments and)

RN 174672-75-4 ZCA
CN 2-Propenoic acid, 2-methyl-, polymer with 2-(4-benzoyl-3-hydroxyphenoxy)-1-[(4-benzoyl-3-hydroxyphenoxy)methyl]ethyl 2-propenoate, dodecyl 2-methyl-2-propenoate, ethenylmethylbenzene, (8-hydroxy-5-quinolinyl)methyl 2-methyl-2-propenoate, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] di-2-propenoate and exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate (9CI) (CA INDEX NAME)

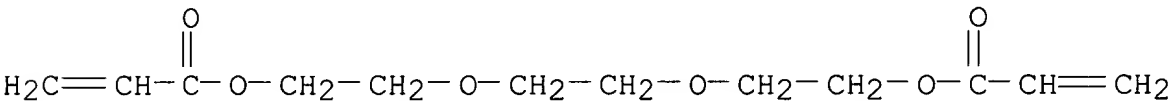
CM 1

CRN 103637-50-9
CMF C32 H26 O8



CM 2

CRN 42978-66-5
CMF C15 H24 O6
CCI IDS

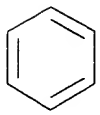


3 (D1—Me)

CM 3

CRN 25013-15-4

CMF C9 H10
CCI IDS



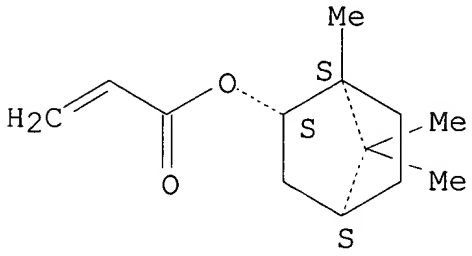
D1—Me

D1—CH═CH$_2$

CM 4

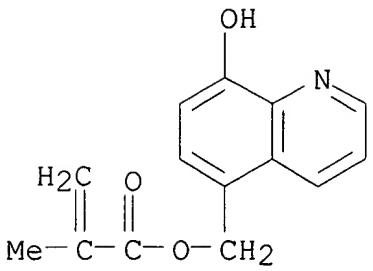
CRN 5888-33-5
CMF C13 H20 O2

Relative stereochemistry.



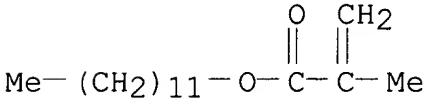
CM 5

CRN 3327-19-3
CMF C14 H13 N O3



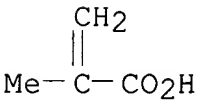
CM 6

CRN 142-90-5
CMF C16 H30 O2



CM 7

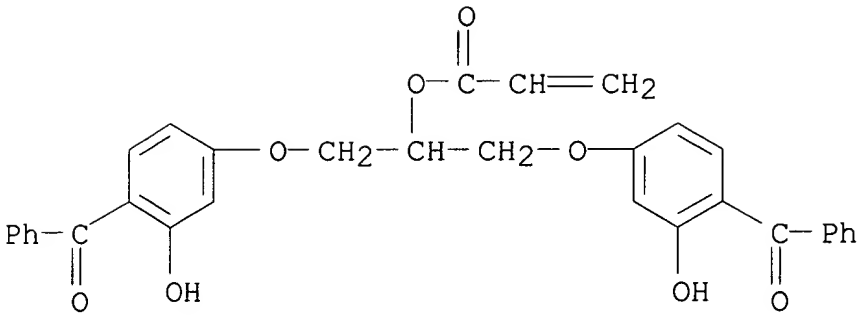
CRN 79-41-4
CMF C4 H6 O2



RN 174672-76-5 ZCA
CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with 2-(4-benzoyl-3-hydroxyphenoxy)-1-[(4-benzoyl-3-hydroxyphenoxy)methyl]ethyl 2-propenoate, ethenylmethylbenzene, 2-hydroxyethyl 2-methyl-2-propenoate, (8-hydroxy-5-quinolinyl)methyl 2-methyl-2-propenoate, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] di-2-propenoate and exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate (9CI) (CA INDEX NAME)

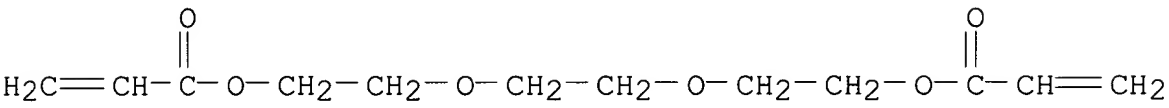
CM 1

CRN 103637-50-9
CMF C32 H26 O8



CM 2

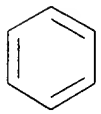
CRN 42978-66-5
CMF C15 H24 O6
CCI IDS



3 (D1—Me)

CM 3

CRN 25013-15-4
CMF C9 H10
CCI IDS



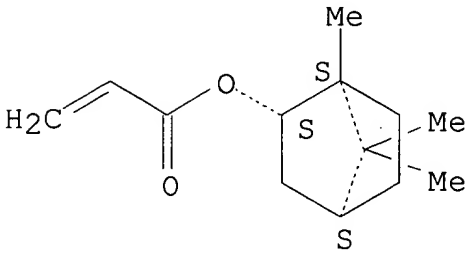
D1—Me

D1—CH═CH2

CM 4

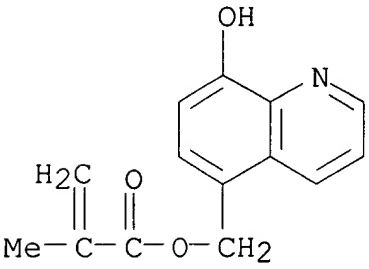
CRN 5888-33-5
CMF C13 H20 O2

Relative stereochemistry.



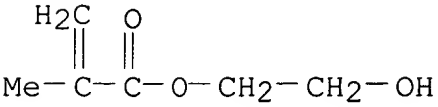
CM 5

CRN 3327-19-3
CMF C14 H13 N O3



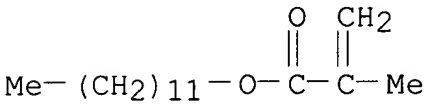
CM 6

CRN 868-77-9
CMF C6 H10 O3



CM 7

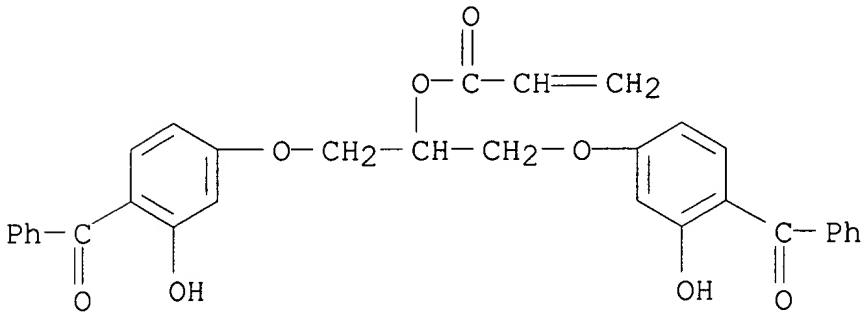
CRN 142-90-5
CMF C16 H30 O2



RN 174672-77-6 ZCA
CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with 2-(4-benzoyl-3-hydroxyphenoxy)-1-[(4-benzoyl-3-hydroxyphenoxy)methyl]ethyl 2-propenoate, ethenyl acetate, ethenylmethylbenzene, (8-hydroxy-5-quinolinyl)methyl 2-methyl-2-propenoate, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] di-2-propenoate and exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate (9CI) (CA INDEX NAME)

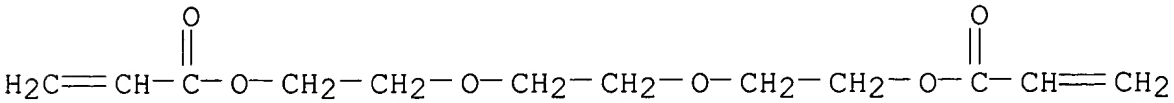
CM 1

CRN 103637-50-9
CMF C32 H26 O8



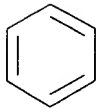
CM 2

CRN 42978-66-5
CMF C15 H24 O6
CCI IDS



CM 3

CRN 25013-15-4
CMF C9 H10
CCI IDS



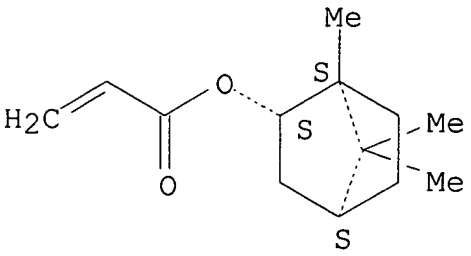
D1—Me

D1—CH═CH$_2$

CM 4

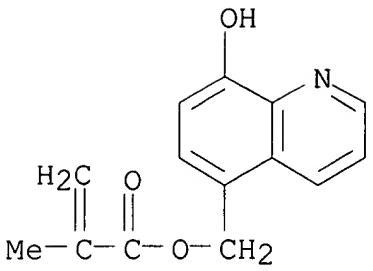
CRN 5888-33-5
CMF C13 H20 O2

Relative stereochemistry.



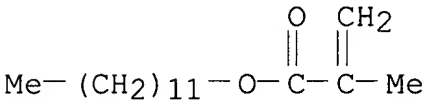
CM 5

CRN 3327-19-3
CMF C14 H13 N O3



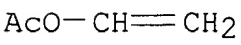
CM 6

CRN 142-90-5
CMF C16 H30 O2



CM 7

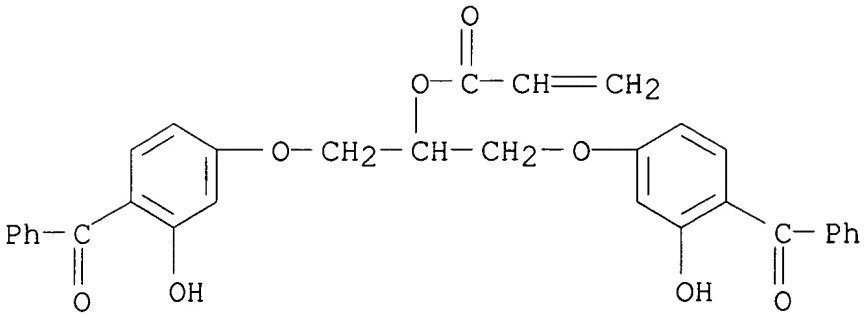
CRN 108-05-4
CMF C4 H6 O2



RN 174672-78-7 ZCA
CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with 2-(4-benzoyl-3-hydroxyphenoxy)-1-[(4-benzoyl-3-hydroxyphenoxy)methyl]ethyl 2-propenoate, ethenylmethylbenzene, (8-hydroxy-5-quinolinyl)methyl 2-methyl-2-propenoate, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] di-2-propenoate, oxiranylmethyl 2-methyl-2-propenoate and exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate (9CI) (CA INDEX NAME)

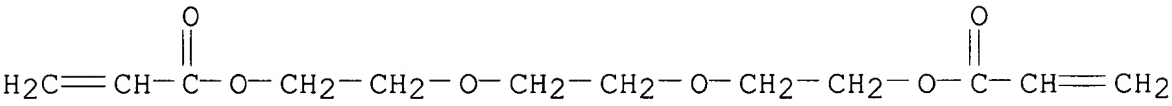
CM 1

CRN 103637-50-9
CMF C32 H26 O8



CM 2

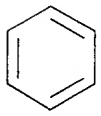
CRN 42978-66-5
CMF C15 H24 O6
CCI IDS



3 (D1—Me)

CM 3

CRN 25013-15-4
CMF C9 H10
CCI IDS



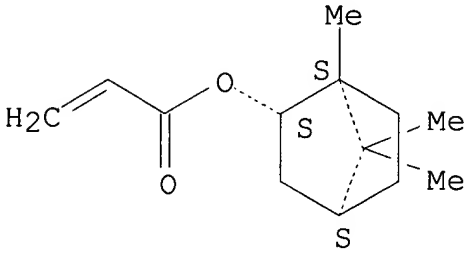
D1—Me

D1—CH═CH2

CM 4

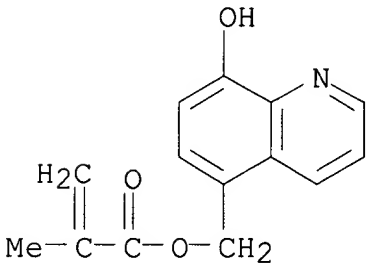
CRN 5888-33-5
CMF C13 H20 O2

Relative stereochemistry.



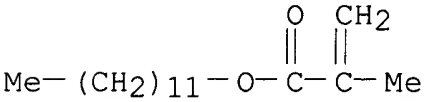
CM 5

CRN 3327-19-3
CMF C14 H13 N O3



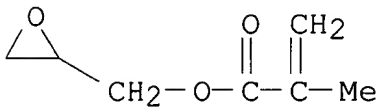
CM 6

CRN 142-90-5
CMF C16 H30 O2



CM 7

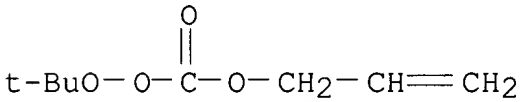
CRN 106-91-2
CMF C7 H10 O3



RN 174672-79-8 ZCA
CN 2-Propenoic acid, 2-methyl-, 4-benzoyl-3-hydroxyphenyl ester, polymer with OO-(1,1-dimethylethyl) O-2-propenyl carbonoperoxoate, dodecyl 2-methyl-2-propenoate, ethenyl acetate, ethenylmethylbenzene, (8-hydroxy-5-quinolinyl)methyl 2-methyl-2-propenoate, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] di-2-propenoate and exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate (9CI) (CA INDEX NAME)

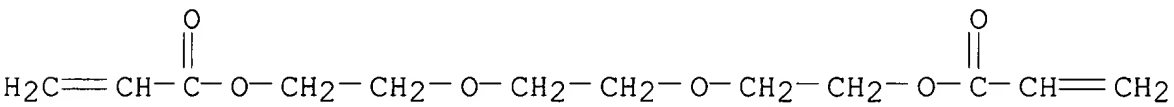
CM 1

CRN 65700-08-5
CMF C8 H14 O4



CM 2

CRN 42978-66-5
CMF C15 H24 O6
CCI IDS

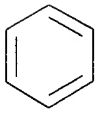


3 (D1—Me)

CM 3

CRN 25013-15-4
CMF C9 H10

CCI IDS



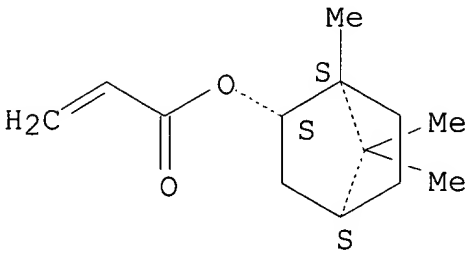
D1—Me

D1—CH═CH$_2$

CM 4

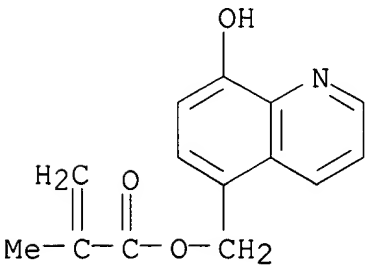
CRN 5888-33-5
CMF C13 H20 O2

Relative stereochemistry.



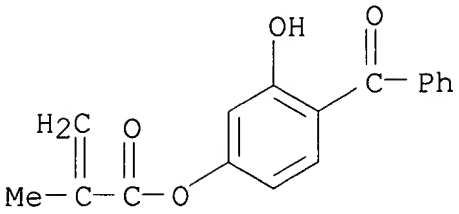
CM 5

CRN 3327-19-3
CMF C14 H13 N O3



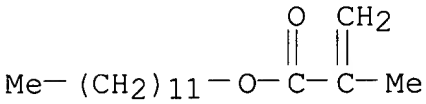
CM 6

CRN 2035-72-5
CMF C17 H14 O4



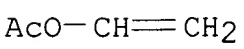
CM 7

CRN 142-90-5
CMF C16 H30 O2



CM 8

CRN 108-05-4
CMF C4 H6 O2

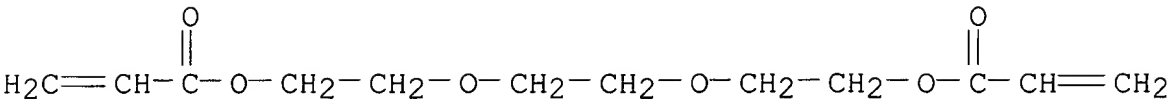


RN 174672-80-1 ZCA
CN 2-Propenoic acid, 2-methyl-, 4-benzoyl-3-hydroxyphenyl ester, polymer with cyclopentyl 2-methyl-2-propenoate, dodecyl 2-methyl-2-propenoate, ethenyl acetate, ethenylmethylbenzene, 2-hydroxyethyl 2-methyl-2-propenoate, (8-hydroxy-5-quinolinyl)methyl 2-methyl-2-propenoate, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] di-2-propenoate and exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 42978-66-5
CMF C15 H24 O6

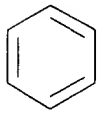
CCI IDS



3 (D1—Me)

CM 2

CRN 25013-15-4
CMF C9 H10
CCI IDS

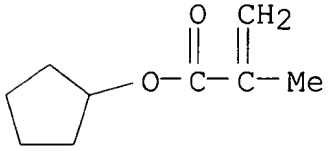


D1—Me

D1—CH═CH2

CM 3

CRN 16868-14-7
CMF C9 H14 O2

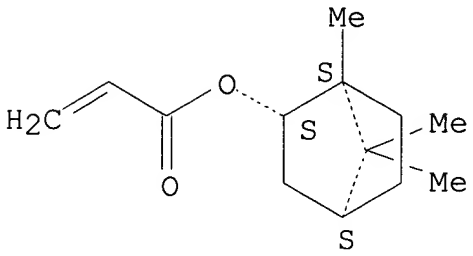


CM 4

CRN 5888-33-5

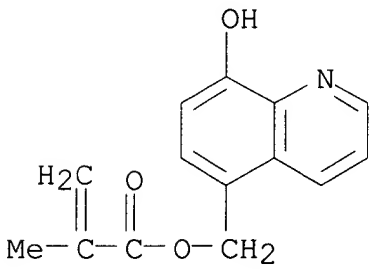
CMF C13 H20 O2

Relative stereochemistry.



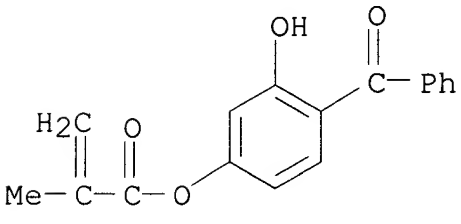
CM 5

CRN 3327-19-3
CMF C14 H13 N O3



CM 6

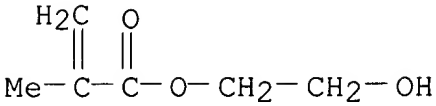
CRN 2035-72-5
CMF C17 H14 O4



CM 7

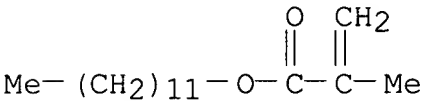
CRN 868-77-9

CMF C6 H10 O3



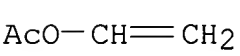
CM 8

CRN 142-90-5
CMF C16 H30 O2



CM 9

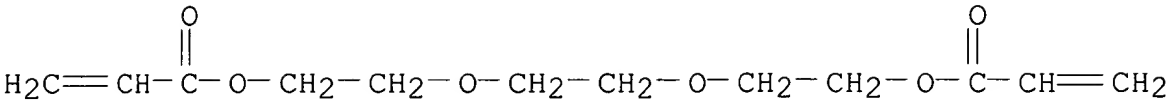
CRN 108-05-4
CMF C4 H6 O2



RN 174672-81-2 ZCA
CN 2-Propenoic acid, 2-methyl-, 4-benzoyl-3-hydroxyphenyl ester, polymer with dodecyl 2-methyl-2-propenoate, ethenylmethylbenzene, 2-hydroxyethyl 2-methyl-2-propenoate, (8-hydroxy-5-quinolinyl)methyl 2-methyl-2-propenoate, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] di-2-propenoate and exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

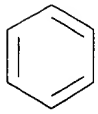
CRN 42978-66-5
CMF C15 H24 O6
CCI IDS



3 (D1—Me)

CM 2

CRN 25013-15-4
CMF C9 H10
CCI IDS



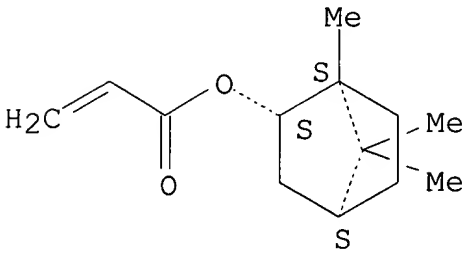
D1—Me

D1—CH═CH2

CM 3

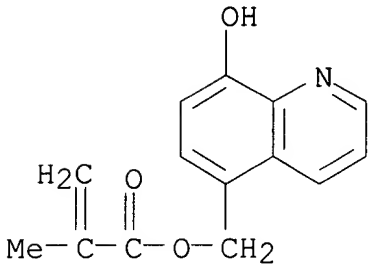
CRN 5888-33-5
CMF C13 H20 O2

Relative stereochemistry.



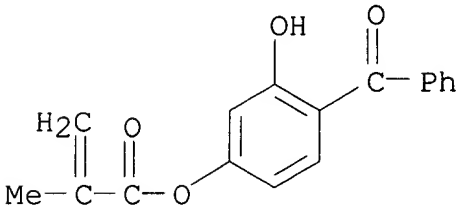
CM 4

CRN 3327-19-3
CMF C14 H13 N O3



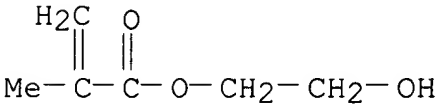
CM 5

CRN 2035-72-5
CMF C17 H14 O4



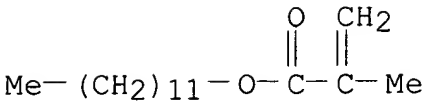
CM 6

CRN 868-77-9
CMF C6 H10 O3



CM 7

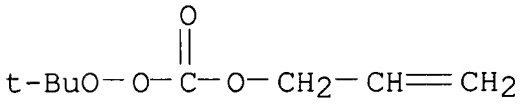
CRN 142-90-5
CMF C16 H30 O2



RN 174672-82-3 ZCA
CN 2-Propenoic acid, 2-methyl-, 4-benzoyl-3-hydroxyphenyl ester, polymer with OO-(1,1-dimethylethyl) O-2-propenyl carbonoperoxoate, dodecyl 2-methyl-2-propenoate, ethenylmethylbenzene, (8-hydroxy-5-quinolinyl)methyl 2-methyl-2-propenoate, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] di-2-propenoate and exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate (9CI) (CA INDEX NAME)

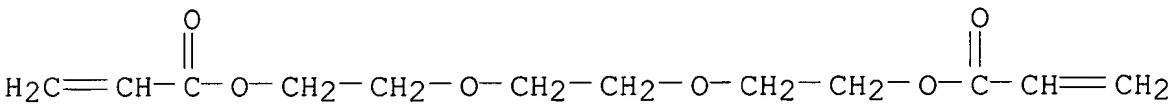
CM 1

CRN 65700-08-5
CMF C8 H14 O4



CM 2

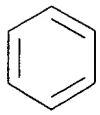
CRN 42978-66-5
CMF C15 H24 O6
CCI IDS



3 (D1-Me)

CM 3

CRN 25013-15-4
CMF C9 H10
CCI IDS



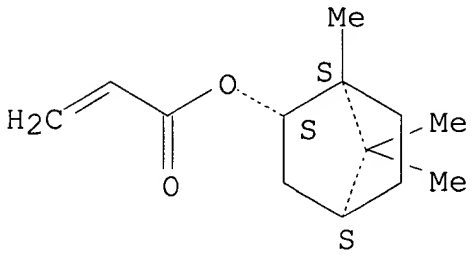
D1—Me

D1—CH═CH$_2$

CM 4

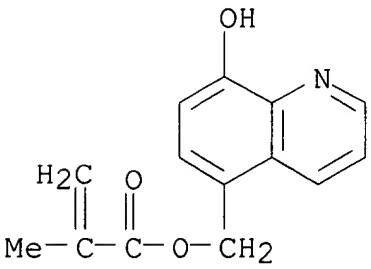
CRN 5888-33-5
CMF C13 H20 O2

Relative stereochemistry.



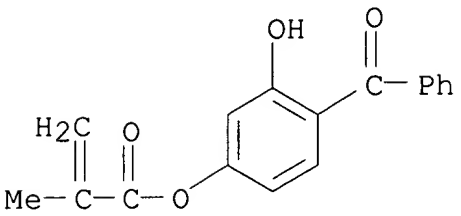
CM 5

CRN 3327-19-3
CMF C14 H13 N O3



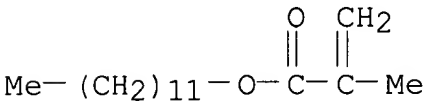
CM 6

CRN 2035-72-5
CMF C17 H14 O4



CM 7

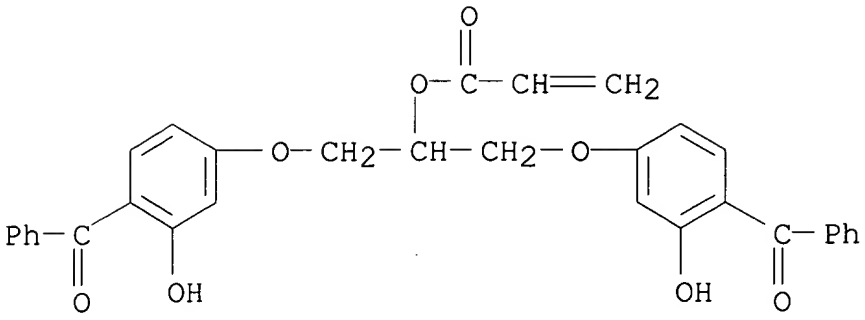
CRN 142-90-5
CMF C16 H30 O2



RN 174672-83-4 ZCA
CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with 2-(4-benzoyl-3-hydroxyphenoxy)-1-[(4-benzoyl-3-hydroxyphenoxy)methyl]ethyl 2-propenoate, OO-(1,1-dimethylethyl) O-2-propenyl carbonoperoxoate, ethenylmethylbenzene, (8-hydroxy-5-quinolinyl)methyl 2-methyl-2-propenoate, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] di-2-propenoate and exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate (9CI) (CA INDEX NAME)

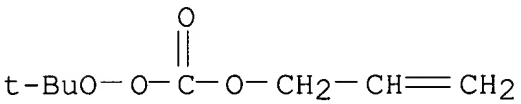
CM 1

CRN 103637-50-9
CMF C32 H26 O8



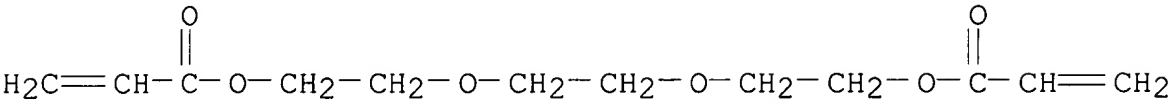
CM 2

CRN 65700-08-5
CMF C8 H14 O4



CM 3

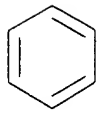
CRN 42978-66-5
CMF C15 H24 O6
CCI IDS



3 (D1—Me)

CM 4

CRN 25013-15-4
CMF C9 H10
CCI IDS



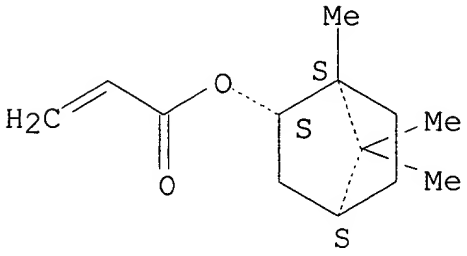
D1—Me

D1—CH═CH$_2$

CM 5

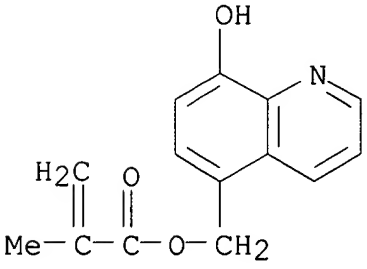
CRN 5888-33-5
CMF C13 H20 O2

Relative stereochemistry.



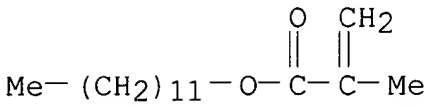
CM 6

CRN 3327-19-3
CMF C14 H13 N O3



CM 7

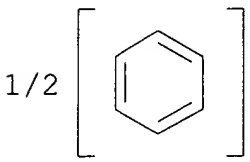
CRN 142-90-5
CMF C16 H30 O2

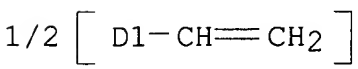


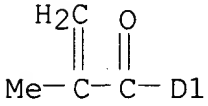
RN 175447-77-5 ZCA
CN 2-Propenoic acid, 2-methyl-, 4-benzoyl-3-hydroxyphenyl ester, polymer with dodecyl 2-methyl-2-propenoate, ethenylmethylbenzene, 1,1'-(ethenylphenylene)bis[2-methyl-2-propen-1-one], 2-hydroxyethyl 2-methyl-2-propenoate, (8-hydroxy-5-quinolinyl)methyl 2-methyl-2-propenoate, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] di-2-propenoate and exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 176200-82-1
CMF C16 H16 O2
CCI IDS



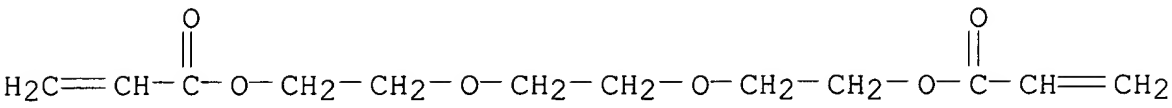




CM 2

CRN 42978-66-5

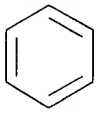
CMF C15 H24 O6
CCI IDS



3 (D1—Me)

CM 3

CRN 25013-15-4
CMF C9 H10
CCI IDS



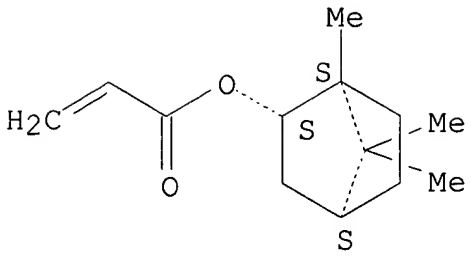
D1—Me

D1—CH═CH2

CM 4

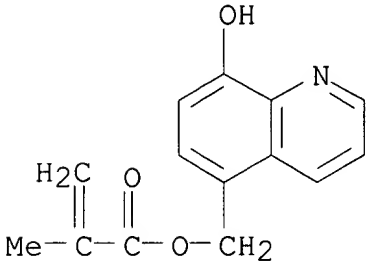
CRN 5888-33-5
CMF C13 H20 O2

Relative stereochemistry.



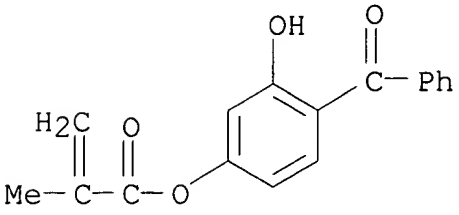
CM 5

CRN 3327-19-3
CMF C14 H13 N O3



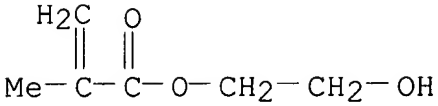
CM 6

CRN 2035-72-5
CMF C17 H14 O4



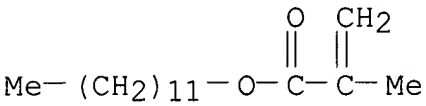
CM 7

CRN 868-77-9
CMF C6 H10 O3



CM 8

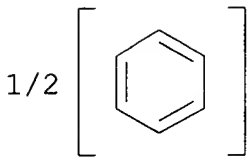
CRN 142-90-5
CMF C16 H30 O2

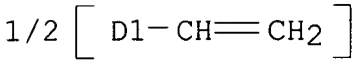


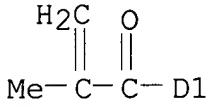
RN 175524-26-2 ZCA
CN 2-Propenoic acid, 2-methyl-, 4-benzoyl-3-hydroxyphenyl ester, polymer with OO-(1,1-dimethylethyl) O-2-propenyl carbonoperoxoate, dodecyl 2-methyl-2-propenoate, ethenylmethylbenzene, 1,1'-(ethenylphenylene)bis[2-methyl-2-propen-1-one], (8-hydroxy-5-quinolinyl) methyl 2-methyl-2-propenoate, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] di-2-propenoate and exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 176200-82-1
CMF C16 H16 O2
CCI IDS

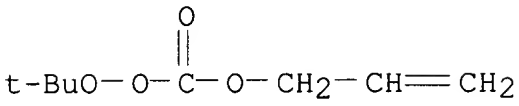






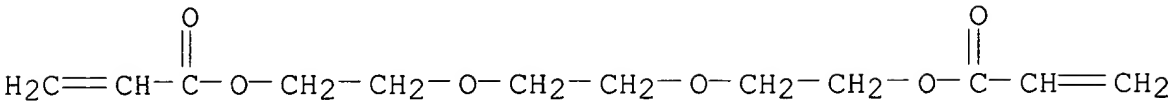
CM 2

CRN 65700-08-5
CMF C8 H14 O4



CM 3

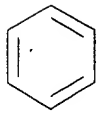
CRN 42978-66-5
CMF C15 H24 O6
CCI IDS



3 (D1—Me)

CM 4

CRN 25013-15-4
CMF C9 H10
CCI IDS



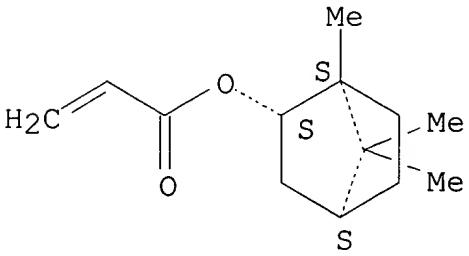
D1—Me

D1—CH═CH_2

CM 5

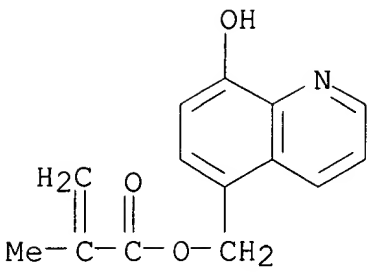
CRN 5888-33-5
CMF C13 H20 O2

Relative stereochemistry.



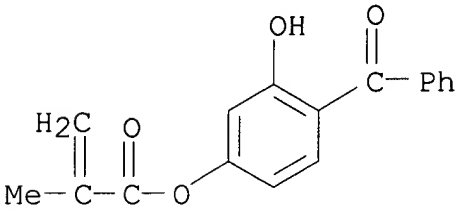
CM 6

CRN 3327-19-3
CMF C14 H13 N O3



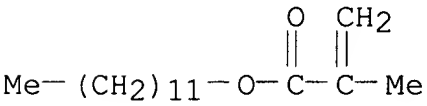
CM 7

CRN 2035-72-5
CMF C17 H14 O4



CM 8

CRN 142-90-5
CMF C16 H30 O2



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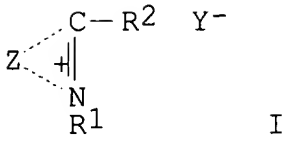
174672-78-7P 174672-79-8P 174672-80-1P
174672-81-2P 174672-82-3P 174672-83-4P
175447-77-5P 175524-26-2P
(liq. electrostatog. developers contg. org. pigments and)

L42 ANSWER 18 OF 110 ZCA COPYRIGHT 2006 ACS on STN
121:241727 direct-positive color photographic material. Inoe, Akyuki (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 06059373 A2 **19940304** Heisei, 33 pp. (Japanese). CODEN: JKXXAF.
APPLICATION: JP 1992-227876 19920804.
GI



I

AB A direct-pos. color photog. material providing pos. images with high Dmax and low Dmin comprises, on a support, .gtoreq.1 silver halide emulsion layer contg. a color coupler and unprefogged internal latent image-type silver halide grains and .gtoreq.1 nonphotosensitive layer, wherein the silver halide grains are grown in the presence of a natural or synthetic protective colloid (other than gelatin) and .gtoreq.1 of the photog. layers contains a nucleating agent represented by the formula I (Z = a nonmetallic group for forming a 5- or 6-membered heterocyclic ring; R1 = an aliph. group; R2 = H or an aliph. or arom. group; Y- = an anion) or R3R4NN(R5)GR6 (R3 = an aliph., arom., or heterocyclic group; R4, R5 = H, alkylsulfonyl, arylsulfonyl, or acyl with both R4 and R5 being not H at the same time; R6 = H, alkyl, aralkyl, aryl, alkoxy, aryloxy, or amino; G = carbonyl, sulfonyl, sulfinyl, phosphoryl, or iminomethylene).

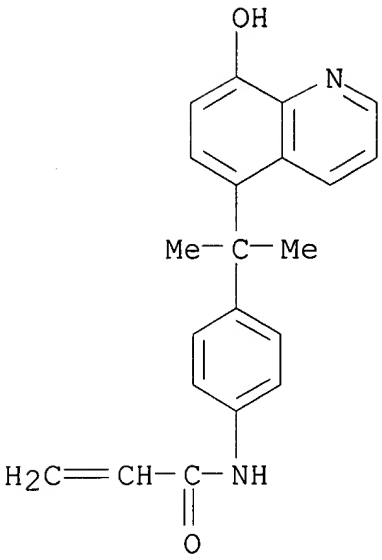
IT **132043-20-0**
(direct-pos. silver halide color photog. emulsions contg.)

RN 132043-20-0 ZCA

CN 2-Propenamide, N-[4-[1-(8-hydroxy-5-quinolinyl)-1-methylethyl]phenyl]-, polymer with 2-propenamide (9CI) (CA INDEX NAME)

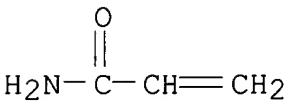
CM 1

CRN 132043-19-7
CMF C21 H20 N2 O2



CM 2

CRN 79-06-1
CMF C3 H5 N O



IT **132043-20-0**
(direct-pos. silver halide color photog. emulsions contg.)

L42 ANSWER 23 OF 110 ZCA COPYRIGHT 2006 ACS on STN
121:69420 Silver halide photographic material chemically sensitized by Te compound in presence of low molecular gelatin and synthetic colloid. Mifune, Hiroyuki; Sano, Tooru (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 06059363 A2 **19940304** Heisei, 24 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1992-227883 19920804.

AB The claimed photog. material having .gtoreq.1 Ag halide emulsion layer is characterized by the procedure of the emulsion prepn. in which the stages of crystn. of Ag halide grains and chem. sensitization by a Te compd. are proceeded in presence of a protective colloid material selected from synthetic polymers, low mol. wt. gelatin and other natural polymers. The manufg. procedure prevents formation of fog which otherwise would accompany with the sensitization by Te compds., and increases the photog. speed. The

photog. material has a good developability.

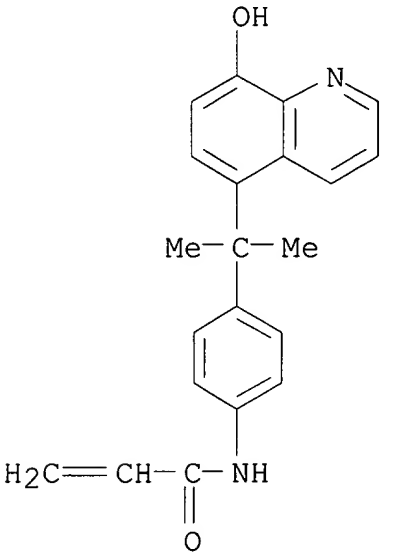
IT **132043-20-0**
(photog. emulsion protective colloid)

RN 132043-20-0 ZCA

CN 2-Propenamide, N-[4-[1-(8-hydroxy-5-quinolinyl)-1-methylethyl]phenyl]-, polymer with 2-propenamide (9CI) (CA INDEX NAME)

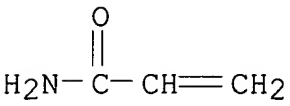
CM 1

CRN 132043-19-7
CMF C21 H20 N2 O2



CM 2

CRN 79-06-1
CMF C3 H5 N O



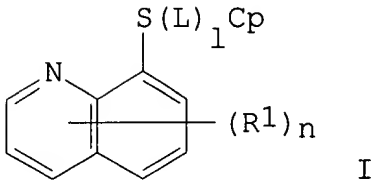
IT **132043-20-0**
(photog. emulsion protective colloid)

L42 ANSWER 27 OF 110 ZCA COPYRIGHT 2006 ACS on STN

118:179909 Heat-developable color photographic material and image formation method. Kato, Midori; Komamura, Tawara (Konica Co.,

Japan). Jpn. Kokai Tokkyo Koho JP 04296751 A2 **19921021** Heisei, 27 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1991-84522 19910326.

GI



I

AB The title material comprises a support having thereon photosensitive Ag halide, a reducing agent, a binder, and a magenta dye-providing coupler compd. represented by I. For I, Cp = magenta coupler residue; L = divalent linking group; l = 0 or 1; R1 = H, halo, or monovalent org. group; n = 0 to 6. Also claimed is an image formation method using the title material. The use of the title material gives excellent color reprodn.

IT **146817-87-0**
(photog. coupler)

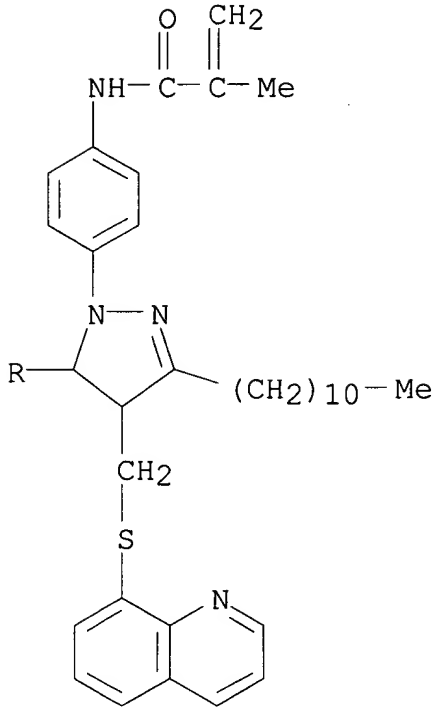
RN 146817-87-0 ZCA

CN 2-Propenoic acid, butyl ester, polymer with N-[1-(4-chlorophenyl)-4-[[4,5-dihydro-1-[4-[(2-methyl-1-oxo-2-propenyl)amino]phenyl]-4-[(8-quinolinylthio)methyl]-3-undecyl-1H-pyrazol-5-yl]oxy]-4,5-dihydro-5-oxo-1H-pyrazol-3-yl]tridecanamide (9CI) (CA INDEX NAME)

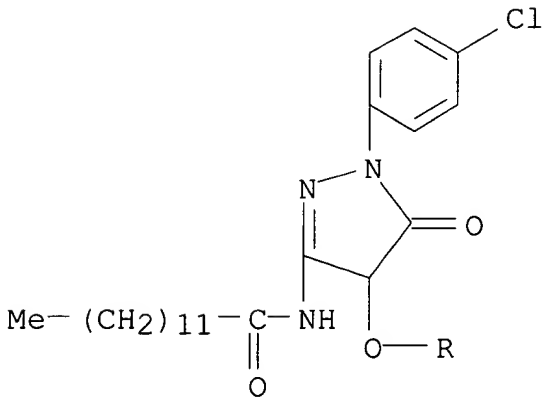
CM 1

CRN 146817-86-9
CMF C56 H74 Cl N7 O4 S

PAGE 1-A

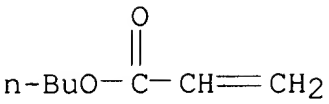


PAGE 2-A



CM 2

CRN 141-32-2
CMF C7 H12 O2

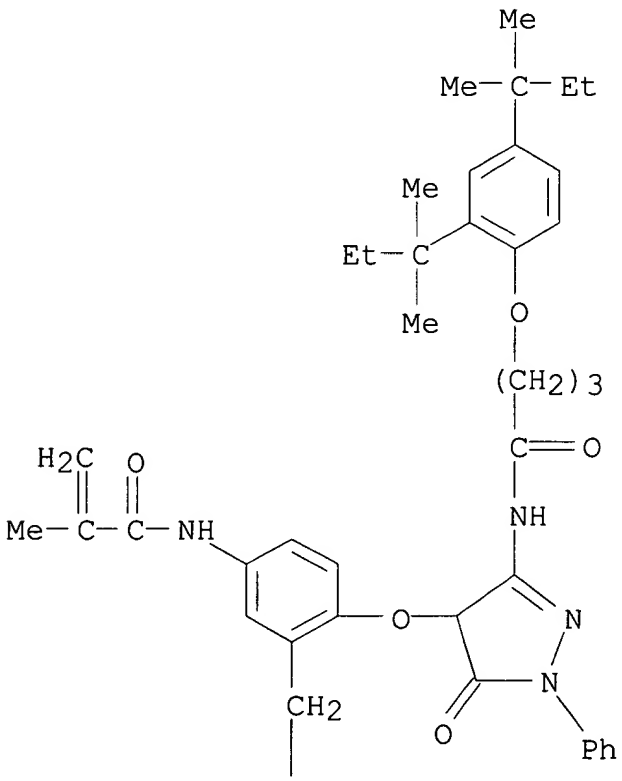


IT **146817-85-8P**
(prepn. of, as photog. coupler)
RN 146817-85-8 ZCA
CN 2-Propenoic acid, butyl ester, polymer with 4-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[4,5-dihydro-4-[4-[(2-methyl-1-oxo-2-propenyl)amino]-2-[[(5-methyl-8-quinolinyl)thio]methyl]phenoxy]-5-oxo-1-phenyl-1H-pyrazol-3-yl]butanamide (9CI) (CA INDEX NAME)

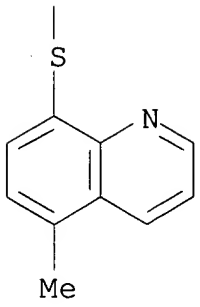
CM 1

CRN 146817-84-7
CMF C50 H57 N5 O5 S

PAGE 1-A

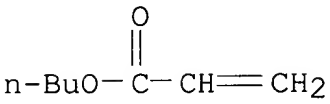


PAGE 2-A



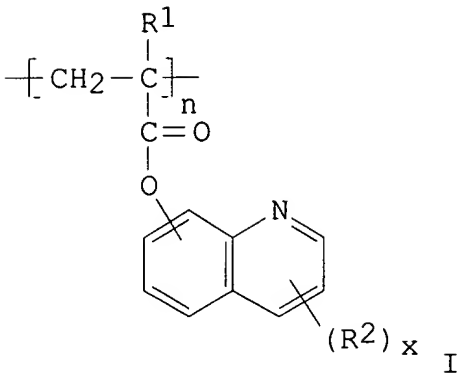
CM 2

CRN 141-32-2
CMF C7 H12 O2



IT **146817-87-0**
(photog. coupler)
IT **146817-85-8P**
(prepn. of, as photog. coupler)

L42 ANSWER 30 OF 110 ZCA COPYRIGHT 2006 ACS on STN
117:222704 Organic thin-film electroluminescent elements. Nishikiya, Yoshinori; Kataoka, Masanori; Kuroda, Nobuyuki; Matsura, Kazuo (Nippon Sekiyu K. K., Japan). Jpn. Kokai Tokkyo Koho JP 04077595 A2 **19920311** Heisei, 10 pp. (Japanese). CODEN: JKXXAF.
APPLICATION: JP 1990-185400 19900716.
GI



I

AB The element, suited for use in large-area electrooptic displays, comprises a layer contg. an electron-transporting polymer I(R1=H, C1-4 alkyl; R2=H, C1-4 alkyl, aryl, allyloxy, thioether, NH2, halo, CHO, CN, NO2, OH; x=1-6; n>2), wherein the layer may contain a light-emitting compd.

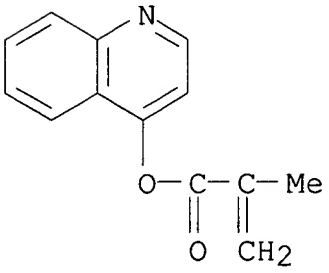
IT **144306-79-6**
(electron-transporting, electroluminescent elements from)

RN 144306-79-6 ZCA

CN 2-Propenoic acid, 2-methyl-, 4-quinolinyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 144306-78-5
CMF C13 H11 N O2

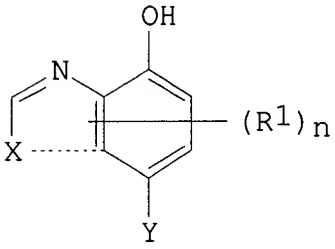


IT **144306-79-6**
(electron-transporting, electroluminescent elements from)

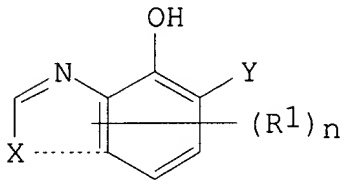
L42 ANSWER 34 OF 110 ZCA COPYRIGHT 2006 ACS on STN
116:48967 Heat-developable color photographic material. Komamura, Tawara; Kato, Katsunori; Kato, Midori (Konica Co., Japan). Jpn. Kokai Tokkyo Koho JP 03073949 A2 **19910328** Heisei, 26 pp.

(Japanese). CODEN: JKXXAF. APPLICATION: JP 1989-200859 19890802. PRIORITY: JP 1989-120127 19890513.

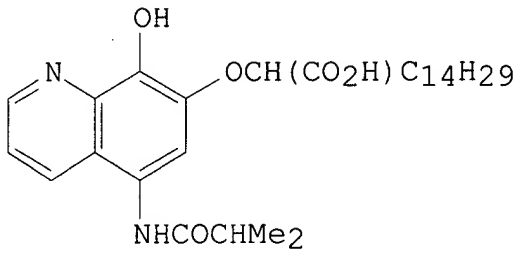
GI



I



II



III

AB The title material comprises photosensitive Ag halides, a reducing agent, a binder, and a coupler I or II (X = atoms forming an arom. N-contg. heterocyclic ring; R1 = H, halogen, an org. group; n = 1 to 4; Y = H or a group which is released upon reaction with the oxidized arom. primary amine color developing agent). III is an example of I. The title material provides excellent images.

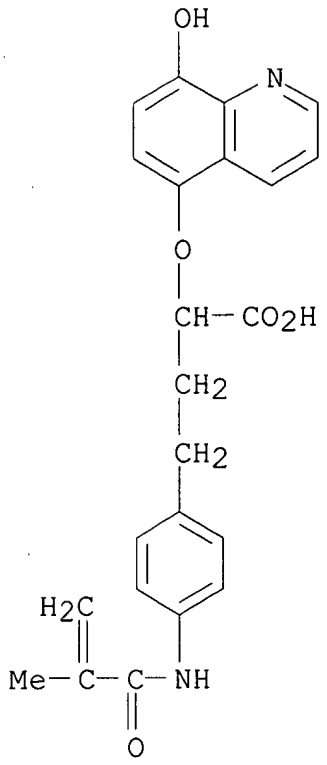
IT **138312-35-3 138312-37-5 138312-39-7**
(photog. coupler)

RN 138312-35-3 ZCA

CN Benzenebutanoic acid, .alpha.-[(8-hydroxy-5-quinolinyl)oxy]-4-[(2-methyl-1-oxo-2-propenyl)amino]-, polymer with butyl 2-propenoate (9CI) (CA INDEX NAME)

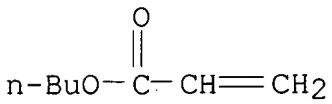
CM 1

CRN 138312-34-2
CMF C23 H22 N2 O5



CM 2

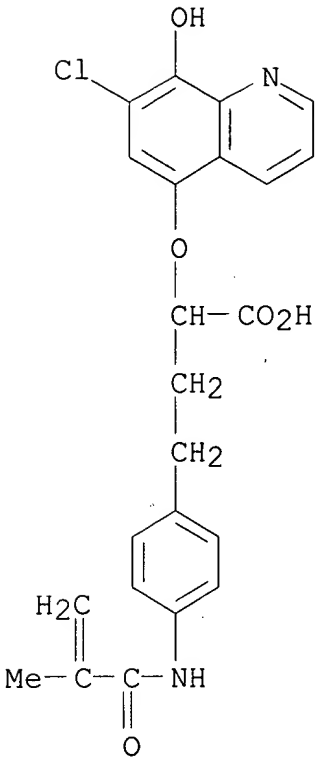
CRN 141-32-2
CMF C7 H12 O2



RN 138312-37-5 ZCA
CN Benzenebutanoic acid, .alpha.-[(7-chloro-8-hydroxy-5-quinolinyl)oxy]-4-[(2-methyl-1-oxo-2-propenyl)amino]-, polymer with ethyl 2-propenoate (9CI) (CA INDEX NAME)

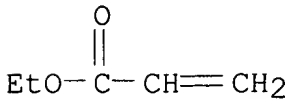
CM 1

CRN 138312-36-4
CMF C23 H21 Cl N2 O5



CM 2

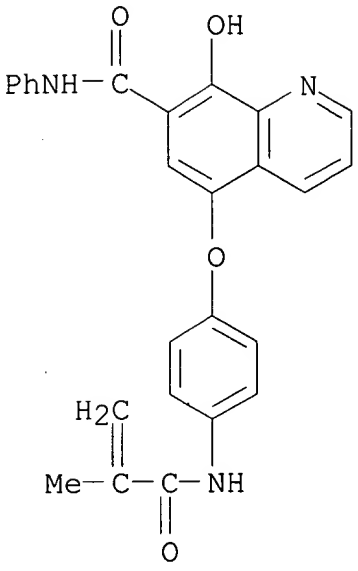
CRN 140-88-5
CMF C5 H8 O2



RN 138312-39-7 ZCA
CN 2-Propenoic acid, 2-methoxyethyl ester, polymer with 8-hydroxy-5-[4-[(2-methyl-1-oxo-2-propenyl)amino]phenoxy]-N-phenyl-7-quinolinecarboxamide (9CI) (CA INDEX NAME)

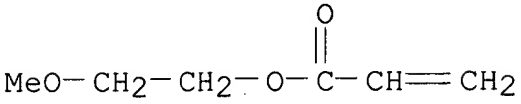
CM 1

CRN 138312-38-6
CMF C26 H21 N3 O4



CM 2

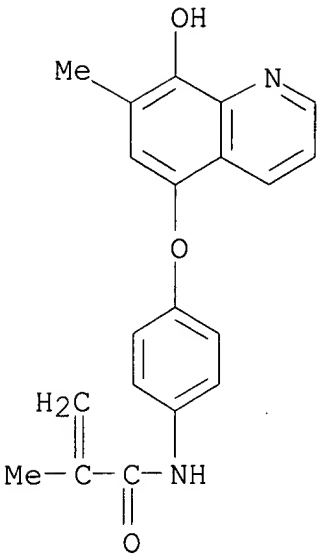
CRN 3121-61-7
CMF C6 H10 O3



IT **138312-33-1P**
(prepn. of, as photog. coupler)
RN 138312-33-1 ZCA
CN 2-Propenoic acid, butyl ester, polymer with N-[4-[(8-hydroxy-7-methyl-5-quinolinyl)oxy]phenyl]-2-methyl-2-propenamide (9CI) (CA INDEX NAME)

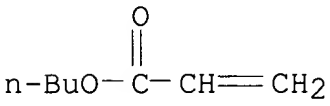
CM 1

CRN 138312-32-0
CMF C20 H18 N2 O3



CM 2

CRN 141-32-2
CMF C7 H12 O2



IT **138312-35-3 138312-37-5 138312-39-7**
(photog. coupler)
IT **138312-33-1P**
(prepn. of, as photog. coupler)

L42 ANSWER 39 OF 110 ZCA COPYRIGHT 2006 ACS on STN
114:91851 Silver halide photographic material and its manufacture. Urabe, Shigeji (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 02166442 A2 **19900627** Heisei, 20 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1988-321426 19881220.
AB In a Ag halide photog. material employing .gtoreq.1 Ag halide emulsion layers on a support, the Ag halide grains are obtained by adding to a reactor used to effect nucleation and crystal growth pregrown fine Ag halide grains, the dispersing medium for the Ag halide grains being lower mol. wt. gelatin, synthetic polymers having protective colloid characteristics, and natural polymer other than gelatin.
IT **132043-20-0**

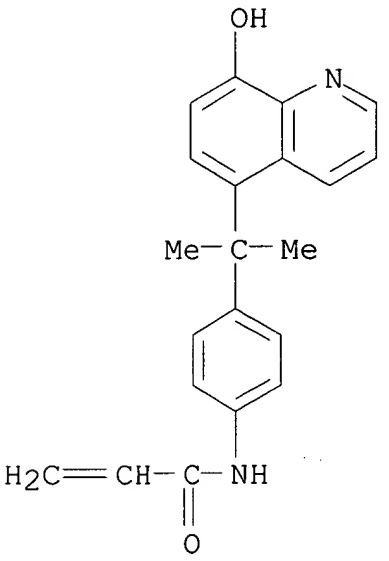
(pretective colloid, silver halide photog. emulsion prepn. using)

RN 132043-20-0 ZCA

CN 2-Propenamide, N-[4-[1-(8-hydroxy-5-quinolinyl)-1-methylethyl]phenyl]-, polymer with 2-propenamide (9CI) (CA INDEX NAME)

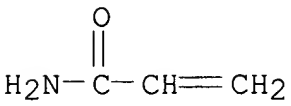
CM 1

CRN 132043-19-7
CMF C21 H20 N2 O2



CM 2

CRN 79-06-1
CMF C3 H5 N O



IT **132043-20-0**
(pretective colloid, silver halide photog. emulsion prepn. using)

L42 ANSWER 60 OF 110 ZCA COPYRIGHT 2006 ACS on STN

101:201484 Electrophotographic liquid developer. Furukawa, Akira; Senga, Takao; Suzuki, Shigeyoshi (Mitsubishi Paper Mills, Ltd. , Japan). Ger. Offen. DE 3339662 A1 **19840510**, 38 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1983-3339662 19831102.

PRIORITY: JP 1982-194223 19821104; JP 1983-54534 19830329; JP 1983-86957 19830518; JP 1983-103953 19830610.

AB An electrophotog. liq. developer having improved dispersion stability consists of a dispersion of resin particles in a highly insulating liq. The developer is prepd. by the polymn. of a monomer contg. a polar group in the presence of a polar group-contg. polymer dissolved in the polymn. medium to give a polymer that has a low soly. in the medium and is essentially particle forming. The polar groups of each polymer are mutually adsorptive. Thus, a mixt. contg. lauryl methacrylate 100, methacrylic acid 5, an isoparaffin solvent 500, and benzoyl peroxide 1 g was heated on a water bath at 85.degree. for 5 h to give a 1st polymer. A soln. contg. Me acrylate 100, diethylaminoethyl methacrylate 5, an isoparaffin solvent 100, and AIBN 1 g was then added to the above soln. over 2 h and the mixt. heated for 3 h at 85.degree. on a water bath to give a 2nd polymer. Following the addn. of oil yellow 5, Al stearate 1, and xylene 20 g, the dispersion was thinned 50-fold with an isoparaffin solvent to give a liq. toner with an outstanding dispersion stability.

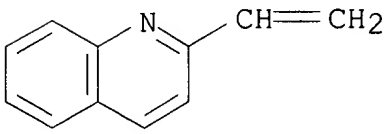
IT **92832-87-6**
(electrophotog. liq. developers with toners contg., for improved dispersion stability)

RN 92832-87-6 ZCA

CN 2-Propenoic acid, butyl ester, polymer with ethenyl acetate and 2-ethenylquinoline (9CI) (CA INDEX NAME)

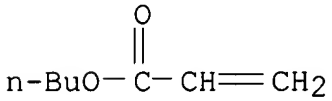
CM 1

CRN 772-03-2
CMF C11 H9 N



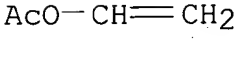
CM 2

CRN 141-32-2
CMF C7 H12 O2



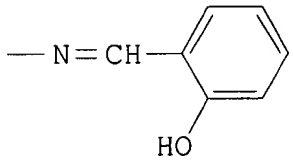
CM 3

CRN 108-05-4
CMF C4 H6 O2

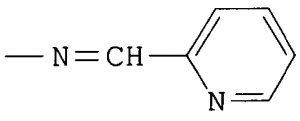


IT **92832-87-6**
(electrophotog. liq. developers with toners contg., for improved dispersion stability)

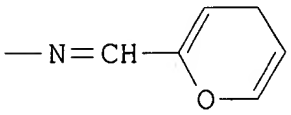
L42 ANSWER 61 OF 110 ZCA COPYRIGHT 2006 ACS on STN
101:46229 Electrostatographic liquid developers. (Ricoh Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 58057138 A2 **19830405** Showa, 5 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1981-155752 19810930.
GI



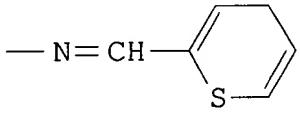
I



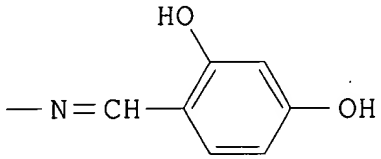
II



III



IV



V

AB Electrostatog. liq. developers contain copolymers of CH2:CRCO2R1 (R = H, Me; R1 = C6-18 alkyl) with CH2:CHC6H4R2 (R2 = 5-quinilinylazo, 2,4-hydroxyphenylazo, 2,4,6-trihydroxyphenylazo, 2,4-dihydroxy-5-formylphenylazo, 4-hydroxy-3-formylphenylazo, 3-carboxyl-4-hydroxyphenylazo, I, II, III, IV, V) as binders. Thus, carbon black, lauryl methacrylate-VI copolymer, Mn naphthenate, and Isopar G were mixed to give a toner conc., which was dild. with

Isopar H to give an electrophotog. liq. developer. Toner images obtained by using the developer showed excellent fixability.

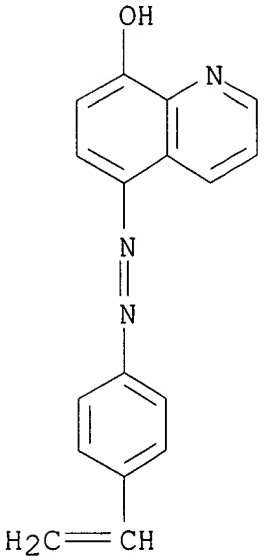
IT **90885-35-1**
(binder resin, for electrostatog. liq. developers)

RN 90885-35-1 ZCA

CN 2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymer with 5-[(4-ethenylphenyl)azo]-8-quinolinol (9CI) (CA INDEX NAME)

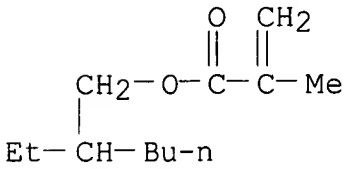
CM 1

CRN 88801-34-7
CMF C17 H13 N3 O



CM 2

CRN 688-84-6
CMF C12 H22 O2



IT **90885-35-1**
(binder resin, for electrostatog. liq. developers)

L42 ANSWER 62 OF 110 ZCA COPYRIGHT 2006 ACS on STN
99:195596 Photocurable polymers. (Agency of Industrial Sciences and Technology, Japan). Jpn. Kokai Tokkyo Koho JP 58049712 A2 **19830324** Showa, 6 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1981-148051 19810918.

AB Photocurable acrylic polymers contg. pyridylethenylphenyl, quinolinylethenylphenyl, or benzothiazolylethenylphenyl group-contg. pendent chains are prepd. Thus, 4-methylquinoline [491-35-0] was treated with vanillin [121-33-5] in Ac2O and the mixt. was refluxed overnight to give 4-[2-(4-hydroxy-3-methoxyphenyl)ethenyl]quinoline [86098-69-3] which was then treated with methacryloyl chloride [920-46-7] in the presence of Et3N in AcNMe2 to give 80.3% 4-[2-(4-methacryloyloxy-3-methoxyphenyl)ethenyl]quinoline (I) [86112-77-8]. The polymn. of 1.03 g I and 2.94 g Me methacrylate in the presence of 15 mg AIBN in benzene gave a copolymer [**86112-78-9**] (90.2% yield) that was more photosensitive than a com. vinyl cinnamate resin.

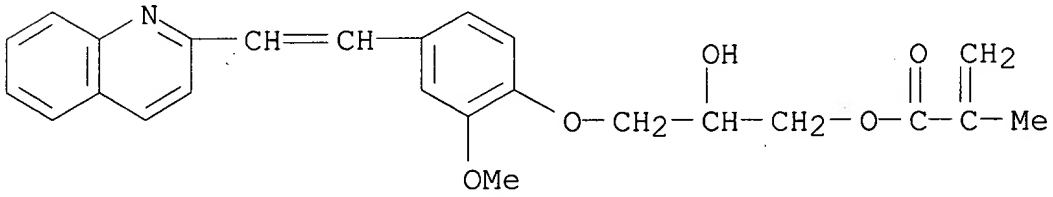
IT **86112-67-6P 86112-69-8P 86112-78-9P**
(photocurable, manuf. of)

RN 86112-67-6 ZCA

CN 2-Propenoic acid, 2-methyl-, 2-hydroxy-3-[2-methoxy-4-[2-(2-quinolinyl)ethenyl]phenoxy]propyl ester, polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

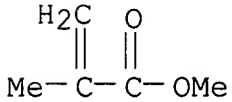
CM 1

CRN 86098-68-2
CMF C25 H25 N O5



CM 2

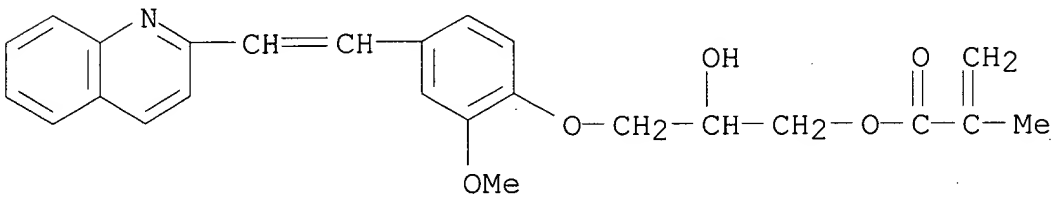
CRN 80-62-6
CMF C5 H8 O2



RN 86112-69-8 ZCA
CN 2-Propenoic acid, 2-methyl-, 2-hydroxy-3-[2-methoxy-4-[2-(2-quinolinyl)ethenyl]phenoxy]propyl ester, polymer with methyl 2-methyl-2-propenoate and 2-propenenitrile (9CI) (CA INDEX NAME)

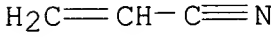
CM 1

CRN 86098-68-2
CMF C25 H25 N O5



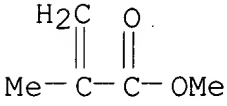
CM 2

CRN 107-13-1
CMF C3 H3 N



CM 3

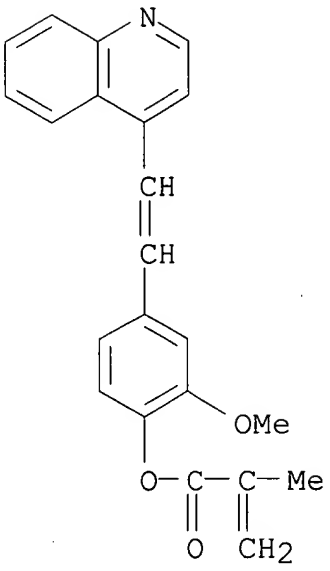
CRN 80-62-6
CMF C5 H8 O2



RN 86112-78-9 ZCA
CN 2-Propenoic acid, 2-methyl-, 2-methoxy-4-[2-(4-quinolinyl)ethenyl]phenyl ester, polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

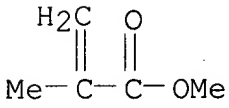
CM 1

CRN 86112-77-8
CMF C22 H19 N O3



CM 2

CRN 80-62-6
CMF C5 H8 O2



IT **86112-67-6P 86112-69-8P 86112-78-9P**
(photocurable, manuf. of)

L42 ANSWER 80 OF 110 ZCA COPYRIGHT 2006 ACS on STN
87:175673 Liquid developer for developing an electrostatic latent image. Tsuneda, Terukuni (Canon K. K., Japan). U.S. US 4040970 **19770809**, 8 pp. (English). CODEN: USXXAM. APPLICATION: US 1975-575720 19750508.

AB Oxidn.-resistant neg.-charged liq. electrophotog. developers giving fog-free images when used to develop a latent electrostatic image are composed of a copolymer contg. .gtoreq.1 vinyl or acrylate monomer; .gtoreq.1 allyl or vinyl phenol, allyl or vinyl quinoline, or vinyl amine; and .gtoreq.1 salt of an unsatd. carboxylic or dicarboxylic acid and a pigment in an insulating liq. vehicle. Thus, Cu phthalocyanine blue 50, a 50% xylene soln. of a coumarone resin 300, a 25% xylene soln. of a cyclized rubber 200, a 50% xylene soln. of low mol. wt. polyethylene 50, and Isopar H 800 g were mixed to give a dispersion, 25 mL of which and an o-allylphenol-K

itaconate-stearyl methacrylate copolymer 0.05 g were dispersed in Isopar H 800 g to give a liq. developer that gave an image d. of 1.29 and a fog d. of 0.02 when fresh and an image d. of 1.30 and a fog d. of 0.02 after standing 1 month vs. 1.15 and 0.03, resp., and 1.0 and 0.04, resp., for a control contg. Aerosol OT.

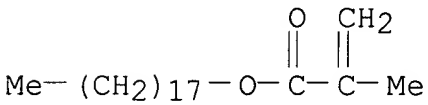
IT **59471-29-3**
(electrophotog. liq. developers contg., oxidn.-resistant, for fog-free images)

RN 59471-29-3 ZCA

CN 2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 4-ethenylquinoline and potassium 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

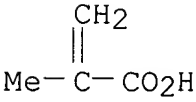
CM 1

CRN 32360-05-7
CMF C22 H42 O2



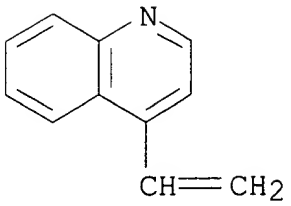
CM 2

CRN 6900-35-2
CMF C4 H6 O2 . K



CM 3

CRN 4945-29-3
CMF C11 H9 N



IT **59471-29-3**
(electrophotog. liq. developers contg., oxidn.-resistant, for fog-free images)

L42 ANSWER 81 OF 110 ZCA COPYRIGHT 2006 ACS on STN
87:144080 Photographic silver halide emulsion. Idel, Karsten Josef; Saleck, Wilhelm; Wolff, Erich; Freitag, Dieter (Agfa-Gevaert A.-G., Fed. Rep. Ger.). Ger. Offen. DE 2541754 **19770324**, 22 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1975-2541754 19750919.

AB A Ag halide emulsion having improved sensitivity without an increase in grain size is prepd. by substituting, completely or partially, the copolymer [CH2CR(CONHCH2R1)]n (R = H or alkyl; R1 = 8-hydroxy-5-(or -7-)quinolyl with optional alkyl or halogen substituents) for gelatin. Thus, to a soln. of acrylamide 117, N-vinylpyrrolidone 30, and 5-N-methacryloylaminomethyl-8-hydroxyquinoline 3 g in EtOH 430 g at 75.degree. was added over 3 h a soln. of azobisisobutyronitrile 0.375 g in EtOH 3 g and the mixt. was heated for 3 h at 70-80.degree. to yield a H2O-sol. terpolymer. When 1/2 of the gelatin in a Ag(Br,I) emulsion was replaced by this terpolymer, the resulting emulsion had twice the speed with the same fog.

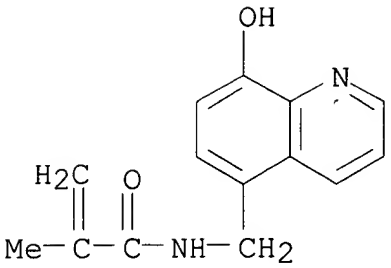
IT **64239-55-0**
(gelatin substitute, for silver halide photog. emulsions)

RN 64239-55-0 ZCA

CN 2-Propenamide, N-[(8-hydroxy-5-quinolinyl)methyl]-2-methyl-, polymer with 1-ethenyl-2-pyrrolidinone and 2-propenamide (9CI) (CA INDEX NAME)

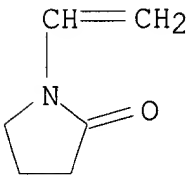
CM 1

CRN 18020-69-4
CMF C14 H14 N2 O2



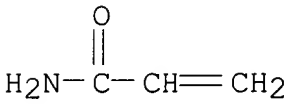
CM 2

CRN 88-12-0
CMF C6 H9 N O



CM 3

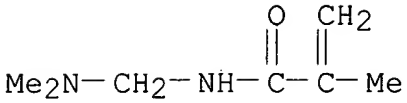
CRN 79-06-1
CMF C3 H5 N O



IT **64239-56-1P 64239-58-3P**
(prepn. of)
RN 64239-56-1 ZCA
CN 2-Propenamide, N-[(dimethylamino)methyl]-2-methyl-, polymer with N-[(8-hydroxy-5-quinolinyl)methyl]-2-methyl-2-propenamide (9CI) (CA INDEX NAME)

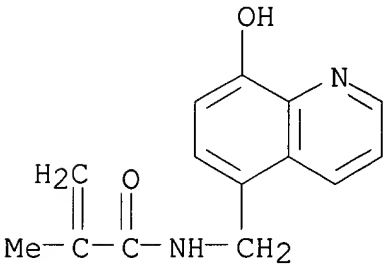
CM 1

CRN 44901-54-4
CMF C7 H14 N2 O



CM 2

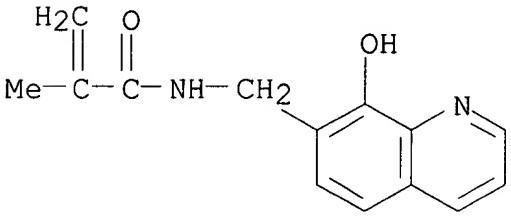
CRN 18020-69-4
CMF C14 H14 N2 O2



RN 64239-58-3 ZCA
CN 2-Propenamide, N-[(8-hydroxy-7-quinolinyl)methyl]-2-methyl-, polymer with 1-ethenyl-2-pyrrolidinone and 2-propenamide (9CI) (CA INDEX NAME)

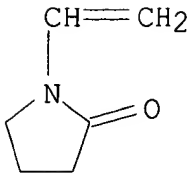
CM 1

CRN 64239-57-2
CMF C14 H14 N2 O2



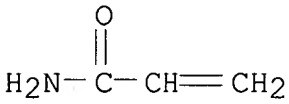
CM 2

CRN 88-12-0
CMF C6 H9 N O



CM 3

CRN 79-06-1
CMF C3 H5 N O



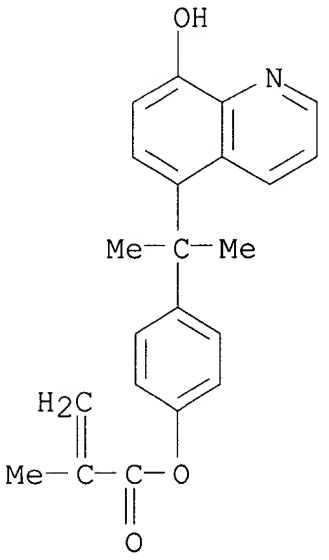
IT **64239-55-0**
(gelatin substitute, for silver halide photog. emulsions)
IT **64239-56-1P 64239-58-3P**
(prepn. of)

L42 ANSWER 84 OF 110 ZCA COPYRIGHT 2006 ACS on STN
86:63498 Photographic silver halide emulsion. Idel, Karsten J.; Saleck, Wilhelm; Wolff, Erich; Freitag, Dieter (Agfa-Gevaert A.-G., Fed. Rep. Ger.). Ger. Offen. DE 2508279 **19760909**, 20 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1975-2508279 19750226.
AB Small Ag halide grains of superior sensitivity, developability, and yielding Ag images of increased covering power can be obtained if 10-100% of the gelatin used as protective colloid during their pptn. is replaced by copolymers of 2-[4-methacryloyloxyphenyl]-2-[5-(8-hydroxyquinolinyl)]propane (Ger. 2,407,307; CA 83; 206799q) (I) with acrylamide, acrylic acid, and/or N-vinylpyrrolidone, having a mol. wt. of 50,000-500,000. Thus, I 4 g was copolymd. with acrylic acid 4 and acrylamide 88 g during 3 h at 80.degree., using K2S2O8 700 mg as catalyst. A Ag(Br,I) emulsion was prepd. from AgNO3 40 g using 10 g of such a polymer as protective colloid, then adding gelatin 10 g as a 10% aq. soln., coagulating the mixt. with polystyrenesulfonic acid at pH 3, and ripening at 55.degree. after addn. of more gelatin and the other conventional addenda. It exhibited a speed increase of 4.degree. (DIN) compared with an emulsion made with gelatin as protective colloid only.
IT **61762-26-3 61919-82-2**
(photog. gelatin substitute)
RN 61762-26-3 ZCA
CN 2-Propenoic acid, 2-methyl-, 4-[1-(8-hydroxy-5-quinolinyl)-1-

methylethyl]phenyl ester, polymer with 2-propenamide and 2-propenoic acid (9CI) (CA INDEX NAME)

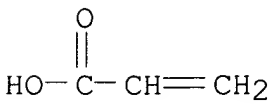
CM 1

CRN 57138-72-4
CMF C22 H21 N O3



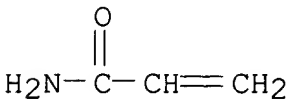
CM 2

CRN 79-10-7
CMF C3 H4 O2



CM 3

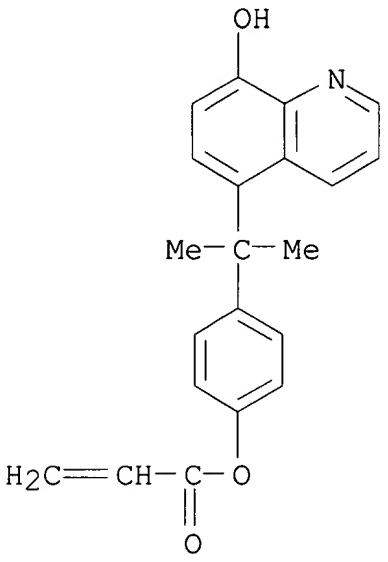
CRN 79-06-1
CMF C3 H5 N O



RN 61919-82-2 ZCA
CN 2-Propenoic acid, 4-[1-(8-hydroxy-5-quinolinyl)-1-methylethyl]phenyl ester, polymer with 1-ethenyl-2-pyrrolidinone and 2-propenamide (9CI) (CA INDEX NAME)

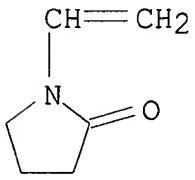
CM 1

CRN 61919-81-1
CMF C21 H19 N O3



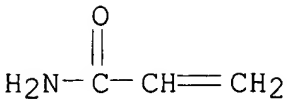
CM 2

CRN 88-12-0
CMF C6 H9 N O



CM 3

CRN 79-06-1
CMF C3 H5 N O



IT **61762-26-3 61919-82-2**
(photog. gelatin substitute)

L42 ANSWER 88 OF 110 ZCA COPYRIGHT 2006 ACS on STN
85:12337 Liquid developer for electrostatic latent images. Tsuneda, Terukuni (Canon K. K., Japan). Ger. Offen. DE 2521917 **19751204**, 33 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1975-2521917 19750516.

AB Liq. developers for electrophotog., electrostatic printing, and the like having improved charge acceptance, oxidn. resistance, and which give fog-free, sharp images of high resolution over an extended period of time contain, dissolved in the carrier liq., a quaternized amino group-contg. terpolymer as the neg. charge charge-controlling agent at 0.005-1.0 g/1 l. of carrier liq. Thus, a 2-diethylaminoethyl methacrylate-potassium methacrylate-stearyl methacrylate (1:1:2) polymer, which was quaternized with Me p-toluenesulfonate (I), 0.05 g was added to a soln. contg. Isopar H 800 g and 30 ml of a dispersion prepd. by adding 300 g of a dispersion prepd. by roller-milling carbon black 39, XPL 20005 (polyester) 200, and Piccolyte S-115 (polyterpene) 40 g to Piccolyte S-115 40, a 20% soln. of Solprene (butadiene-styrene polymer) in PhMe 180, and Isopar H 800 g to give a developer that immediately after prepn. gave an image d. of 1.30 and a fog d. of 0.02 vs. 1.15 and 0.02 for a control contg. the unquaternized polymer. The same developer after storage for 1 month gave values of 1.29 and 0.02, resp., vs. 1.0 and 0.03 for the control.

IT **59471-35-1D**, Quinoline, 2-ethenyl-, polymer with octadecyl 2-methyl-2-propenoate and potassium 2-methyl-2-propenoate, quaternized with methyl toluenesulfonate **59647-05-1D**, Quinoline, 4-(2-propenyl)-, polymer with octadecyl 2-methyl-2-propenoate and potassium 2-methyl-2-propenoate, quaternized with methyl toluenesulfonate
(charge-controlling agent, electrophotog. liq. developers contg., for improved stability and decreased image fog)

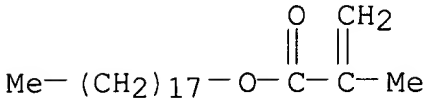
RN 59471-35-1 ZCA

CN 2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 2-ethenylquinoline and potassium 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

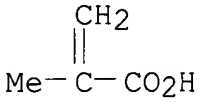
CRN 32360-05-7

CMF C22 H42 O2



CM 2

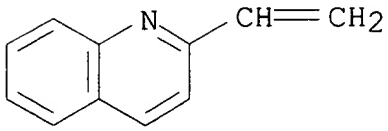
CRN 6900-35-2
CMF C4 H6 O2 . K



● K

CM 3

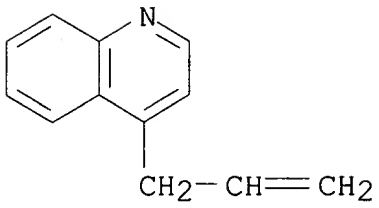
CRN 772-03-2
CMF C11 H9 N



RN 59647-05-1 ZCA
CN 2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with potassium 2-methyl-2-propenoate and 4-(2-propenyl)quinoline (9CI) (CA INDEX NAME)

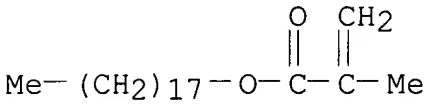
CM 1

CRN 59647-04-0
CMF C12 H11 N



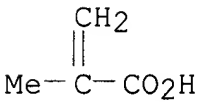
CM 2

CRN 32360-05-7
CMF C22 H42 O2



CM 3

CRN 6900-35-2
CMF C4 H6 O2 . K



● K

IT **59471-35-1D**, Quinoline, 2-ethenyl-, polymer with octadecyl 2-methyl-2-propenoate and potassium 2-methyl-2-propenoate, quaternized with methyl toluenesulfonate **59647-05-1D**, Quinoline, 4-(2-propenyl)-, polymer with octadecyl 2-methyl-2-propenoate and potassium 2-methyl-2-propenoate, quaternized with methyl toluenesulfonate
(charge-controlling agent, electrophotog. liq. developers contg., for improved stability and decreased image fog)

L42 ANSWER 109 OF 110 ZCA COPYRIGHT 2006 ACS on STN
58:47204 Original Reference No. 58:8071h,8072a-c Photographic sensitizer intermediates. (E. I. du Pont de Nemours & Co.). GB 903268 **19620815**, 9 pp. (Unavailable). PRIORITY: US

19590331.

AB Quinaldinium, benzothiazolium, and methinecyanine methosulfates can be used in the prodn. of photog. dye images. 4-O2NC6H4NH2 (138 g.) is mixed with 138 g. HCl and 110 g. paraldehyde, the mixt. is cooled during the reaction, then heated on a steam bath for 1 h., dild. with 10 l. H2O, cooled, filtered, NaOAc added to the filtrate, and the solid material is filtered to give 40 g. 6-nitroquinaldine, m. 161-3.degree., which is refluxed for 2 h. with 180 g. SnCl2 and 200 mL. HCl to give 6-aminoquinaldine (I), m. 188-9.degree. (ether). Methacryloyl chloride (11 g.) is added dropwise to 15.86 g. I below 45.degree., the mixt. is made alk. with Na2CO3, the white solid is filtered, suspended in Na2CO3, the mixt. heated to 55.degree., cooled, the product filtered dissolved in ether, dried, clarified, and the ether evapd. to give 11 g. white 6-methacrylamidoquinaldine, m. 154-6.degree., which is treated with Me2SO4 at 60.degree. to give 6-methacrylamido-1-methylquinaldinium methosulfate (II). Also prepd. are 2,3-dimethyl-5-methacrylamidobenzothiazolium methosulfate; [5-methacrylamido-3-methylbenzothiazole-(2)] [3-methyl-.alpha.-naphthothiazole-(2)]methinecyanine methosulfate, .lambda.max. 447 m.mu. (EtOH-H2O); [5-methacrylamido-3-methylbenzothiazole-(2)] [1-methylquinoline-(2)]methinecyanine methosulfate, m. 290-5.degree. (decompn. and polymn.), .lambda.max. 487 m.mu. (EtOH-H2O); [5-methacrylamido-3 - methylbenzothiazole - (2)] [3 - methylbenzothiazole - (2)]methinecyanine methosulfate, m. 280-5.degree. (decompn. and polymn.), .lambda.max. 420 m.mu.; and bis[5-methacrylamido - 3 - methylbenzothiazole - (2)] - 2 - methyltrimethinecyanine methosulfate, green, .lambda.max. 552 m.mu. (MeOH). A soln. (50 mL.) of 100 g. poly(vinyl alc.) in 500 mL. H2O and 500 mL. 95% EtOH, 2 g. II, 2 g. 5,6-dimethoxy-1-methyl-2-(methylthio)benzothiazolium methosulfate, and 1 g. benzoin Me ether in 15 mL. 95% EtOH are stirred, white poster board is coated with the soln., the coated board dried at room temp. under subdued light, the board exposed to a 275 w. sun-lamp for 2 min. through a neg., developed with a 50% (by wt.) EtOH soln. of 28% NH3, and a deep-red pos. image forms.

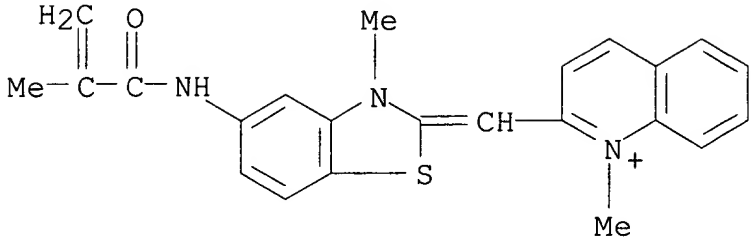
IT **601493-52-1**, Quinolinium, 2-[(5-methacrylamido-3-methyl-2-benzothiazolinylidene)methyl]-1-methyl-, methyl sulfate, polymer from **601493-81-6**, Quinolinium compounds, 6-methacrylamido-1-methyl-2-[3-(3-methyl-2-benzoxazolinylidene)propenyl], methyl sulfate, polymer
(in color photog.)

RN 601493-52-1 ZCA

CN Quinolinium, 2-[(5-methacrylamido-3-methyl-2-benzothiazolinylidene)methyl]-1-methyl-, methyl sulfate, polymer from (7CI) (CA INDEX NAME)

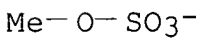
CM 1

CRN 101957-69-1
CMF C23 H22 N3 O S



CM 2

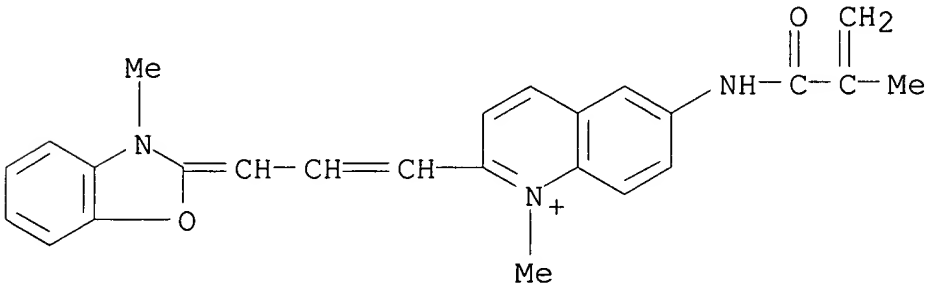
CRN 21228-90-0
CMF C H3 O4 S



RN 601493-81-6 ZCA
CN Quinolinium compounds, 6-methacrylamido-1-methyl-2-[3-(3-methyl-2-benzoxazolinylidene)propenyl], methyl sulfate, polymer (7CI) (CA INDEX NAME)

CM 1

CRN 103132-79-2
CMF C25 H24 N3 O2



CM 2

CRN 21228-90-0
CMF C H3 O4 S

Me—O—SO_3^-

IT **601493-52-1**, Quinolinium, 2-[(5-methacrylamido-3-methyl-2-benzothiazolinylidene)methyl]-1-methyl-, methyl sulfate, polymer from **601493-81-6**, Quinolinium compounds, 6-methacrylamido-1-methyl-2-[3-(3-methyl-2-benzoxazolinylidene)propenyl], methyl sulfate, polymer
(in color photog.)

=> d l42 52,62,73,100 cbib abs hitstr hitrn

L42 ANSWER 52 OF 118 ZCA COPYRIGHT 2006 ACS on STN
108:168038 Photosensitive poly(methacrylates) having styrylpyridinium and styrylquinolinium groups. Ichimura, Kunihiro; Oohara, Noboru (Res. Inst. Polym. Text., Tsukuba, 305, Japan). Journal of Polymer Science, Part A: Polymer Chemistry, 25(11), 3063-77 (English) **1987.** CODEN: JPACEC. ISSN: 0887-624X.

AB Three methods of introducing photodimerizable styrylpyridinium or styrylquinolinium groups to methacrylate polymers were described. Among these, copolymn. of methacrylate monomers with methacrylated styrylpyridine or styrylquinoline offered the most convenient procedure to prep. photosensitive polymers because of the excellent soly. of the polymers having the photofunctional groups in high content. Subsequent treatment with p-toluenesulfonic acid to quaternize the pyridine or quinoline moiety made the polymer highly photosensitive. The polymers having a styrylquinolinium group were sensitive to 488 nm light of an Ar laser, and the sensitivity was about 3 mJ/cm2 when the content of the photosensitive group was 15 mol%.

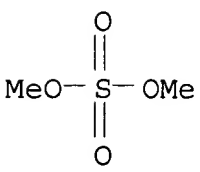
IT **87227-98-3P**
(photosensitive, prepn. of)

RN 87227-98-3 ZCA

CN 2-Propenoic acid, 2-methyl-, 2-hydroxy-3-[2-methoxy-4-[2-(2-quinolinyl)ethenyl]phenoxy]propyl ester, polymer with methyl 2-methyl-2-propenoate, compd. with dimethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 77-78-1
CMF C2 H6 O4 S

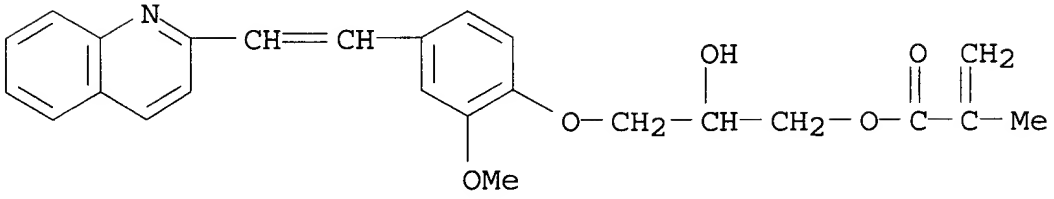


CM 2

CRN 86112-67-6
CMF (C25 H25 N O5 . C5 H8 O2)x
CCI PMS

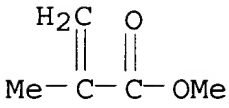
CM 3

CRN 86098-68-2
CMF C25 H25 N O5



CM 4

CRN 80-62-6
CMF C5 H8 O2



IT **87227-98-3P**
(photosensitive, prepn. of)

L42 ANSWER 62 OF 118 ZCA COPYRIGHT 2006 ACS on STN
99:195596 Photocurable polymers. (Agency of Industrial Sciences and Technology, Japan). Jpn. Kokai Tokkyo Koho JP 58049712 A2 **19830324** Showa, 6 pp. (Japanese). CODEN: JKXXAF.
APPLICATION: JP 1981-148051 19810918.

AB Photocurable acrylic polymers contg. pyridylethenylphenyl, quinolinylethenylphenyl, or benzothiazolylethenylphenyl group-contg. pendent chains are prepd. Thus, 4-methylquinoline [491-35-0] was treated with vanillin [121-33-5] in Ac2O and the mixt. was refluxed overnight to give 4-[2-(4-hydroxy-3-methoxyphenyl)ethenyl]quinoline [86098-69-3] which was then treated with methacryloyl chloride

[920-46-7] in the presence of Et3N in AcNMe2 to give 80.3% 4-[2-(4-methacryloyloxy-3-methoxyphenyl)ethenyl]quinoline (I) [86112-77-8]. The polymn. of 1.03 g I and 2.94 g Me methacrylate in the presence of 15 mg AIBN in benzene gave a copolymer [**86112-78-9**] (90.2% yield) that was more photosensitive than a com. vinyl cinnamate resin.

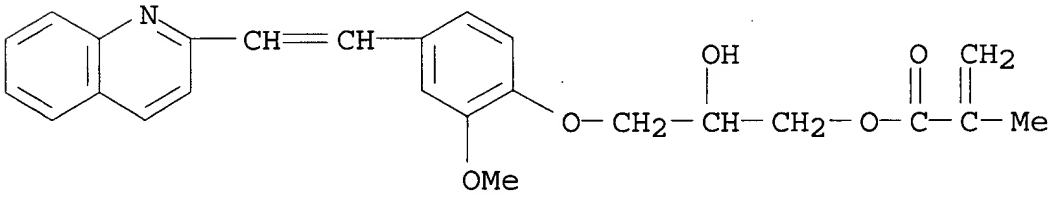
IT **86112-67-6P 86112-69-8P 86112-78-9P**
(photocurable, manuf. of)

RN 86112-67-6 ZCA

CN 2-Propenoic acid, 2-methyl-, 2-hydroxy-3-[2-methoxy-4-[2-(2-quinolinyl)ethenyl]phenoxy]propyl ester, polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

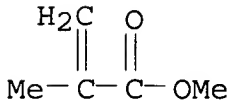
CM 1

CRN 86098-68-2
CMF C25 H25 N O5



CM 2

CRN 80-62-6
CMF C5 H8 O2

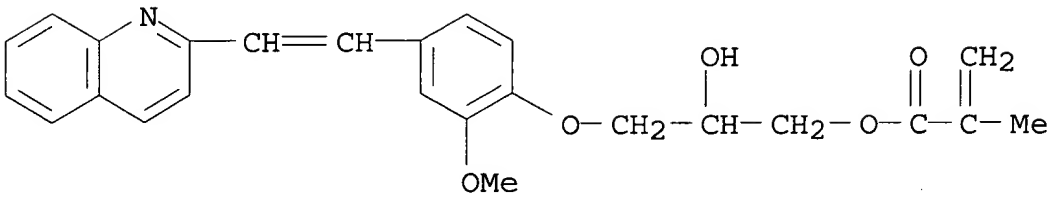


RN 86112-69-8 ZCA

CN 2-Propenoic acid, 2-methyl-, 2-hydroxy-3-[2-methoxy-4-[2-(2-quinolinyl)ethenyl]phenoxy]propyl ester, polymer with methyl 2-methyl-2-propenoate and 2-propenenitrile (9CI) (CA INDEX NAME)

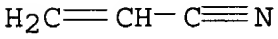
CM 1

CRN 86098-68-2
CMF C25 H25 N O5



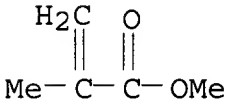
CM 2

CRN 107-13-1
CMF C3 H3 N



CM 3

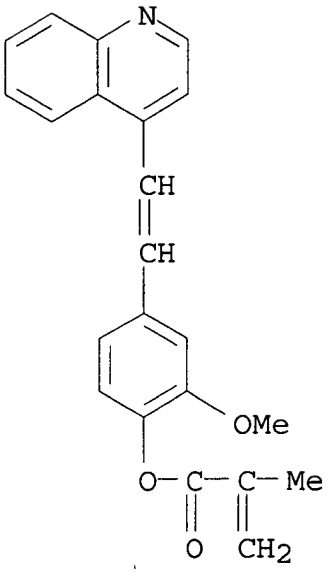
CRN 80-62-6
CMF C5 H8 O2



RN 86112-78-9 ZCA
CN 2-Propenoic acid, 2-methyl-, 2-methoxy-4-[2-(4-quinolinyl)ethenyl]phenyl ester, polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

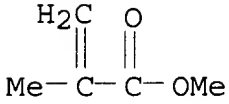
CM 1

CRN 86112-77-8
CMF C22 H19 N O3



CM 2

CRN 80-62-6
CMF C5 H8 O2



IT **86112-67-6P 86112-69-8P 86112-78-9P**
(photocurable, manuf. of)

L32 ANSWER 73 OF 118 ZCA COPYRIGHT 2006 ACS on STN
90:104858 Polymers and copolymers of N-alkylmethacrylamides, N-alkylacrylamides and N,N-dialkylacrylamides. Kopecek, Jindrich; Ulbrich, Karel; Vacik, Jiri; Strohalm, Jiri; Chytry, Vladimir; Drobnik, Jaroslav; Kalal, Jaroslav (Czech.). Czech. CS 173846 **19780815**, 6 pp. (Czech). CODEN: CZXXA9. APPLICATION: CS 1974-2879 19740423.

AB The title amides (10-100%) contg. C1-6 alkyl and C1-6 alkyl substituted with 1-3 OH groups or C1-4 alkoxy groups), optionally with $\leq$50% divinyl compds., are polymd. with 1-30% polar

comonomer(s) [such as methacrylic and acrylic acids, dialkylaminoalkyl methacrylate (alkyl = C1-4), 2-sulfoethyl methacrylate, acrylonitrile, methacrylonitrile, 2-(p-acetamidophenoxy)ethyl methacrylate, N-acryloylmorpholine, N-acryloylpiperidine] in 2-75% low-mol.-wt. pptg. agent with interaction parameter >0.6 to give products useful, e.g., as membranes and as packing for chromatog. columns. Thus, N-(2-hydroxypropyl)methacrylamide 3, N-methacryolylglycylglycine nitrophenyl ester 0.35, azobisisobutyronitrile 0.34, and acetone 35.5 g polymd. under N in a sealed ampul at 50° for 8 h gave 72% product [69236-72-2].

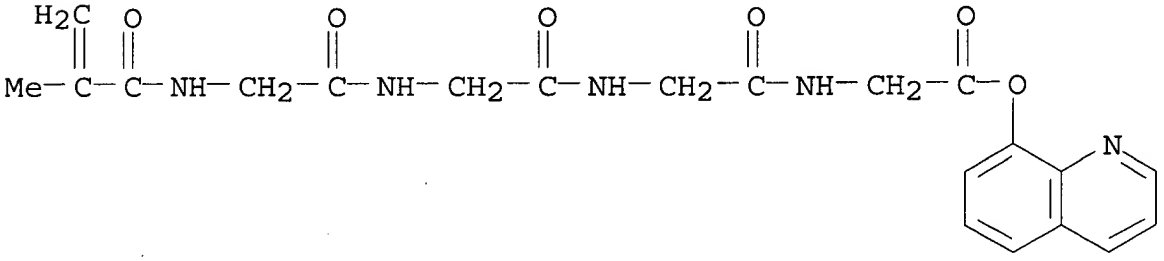
IT **57950-70-6P**
(manuf. of, for chromatog. column packing material)

RN 57950-70-6 ZCA

CN Glycine, N-[N-[N-[N-(2-methyl-1-oxo-2-propenyl)glycyl]glycyl]glycyl]-, 8-quinolinyl ester, polymer with 1,2-ethanediylbis(oxy-2,1-ethanediyl) bis(2-methyl-2-propenoate) and N-(2-hydroxypropyl)-2-methyl-2-propenamide (9CI) (CA INDEX NAME)

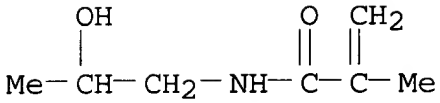
CM 1

CRN 57950-69-3
CMF C21 H23 N5 O6



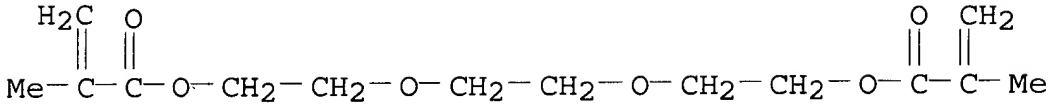
CM 2

CRN 21442-01-3
CMF C7 H13 N O2



CM 3

CRN 109-16-0
CMF C14 H22 O6

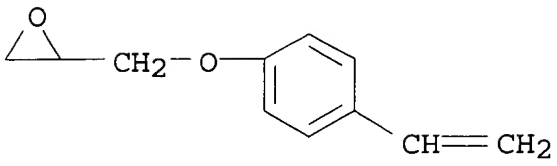


IT **57950-70-6P**
(manuf. of, for chromatog. column packing material)

L42 ANSWER 100 OF 118 ZCA COPYRIGHT 2006 ACS on STN
80:121747 Thermosetting resin compositions. Tanaka, Yoshio; Shimura, Yukio; Okada, Akira (Agency of Industrial Sciences and Technology). Jpn. Tokkyo Koho JP 48084185 B4 **19731108** Showa, 8 pp. (Japanese). CODEN: JAXXAD. APPLICATION: JP 1972-14946 19720212.
AB Molding compns. contained .geq.1 polymer with pendent epoxy group and tertiary amino group as hardening component. For example, 96:4 (mole ratio) glycidyl methacrylate-4-vinyl-2-methylpyridine copolymer (I) [51381-97-6] and 4.6:38.2:57.2 2-vinylquinoline-p-vinylphenyl glycidyl ether-methyl methacrylate copolymer [**43223-09-2**] were prepd. by γ-irradn. and in the presence of azobisisobutyronitrile, resp. A red compression molding compn. was prepd. from I 100, polyethylene 20, SiO2 40, red pigment 3, and fluidity regulator (Vinylite VAGH) 20 parts, and the compn. gave moldings with good elec. characteristics, water and chem. resistance, dimensional stability, and mech. strength.
IT **43223-09-2**
(molding compns., properties of)
RN 43223-09-2 ZCA
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with [(4-ethenylphenoxy)methyl]oxirane and 2-ethenylquinoline (9CI) (CA INDEX NAME)

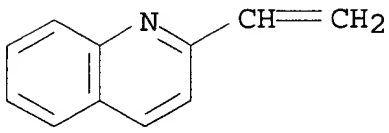
CM 1

CRN 2653-39-6
CMF C11 H12 O2



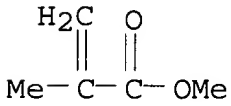
CM 2

CRN 772-03-2
CMF C11 H9 N



CM 3

CRN 80-62-6
CMF C5 H8 O2



IT **43223-09-2**
(molding compns., properties of)